



# Bobcat®

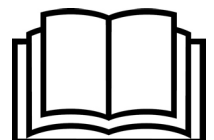
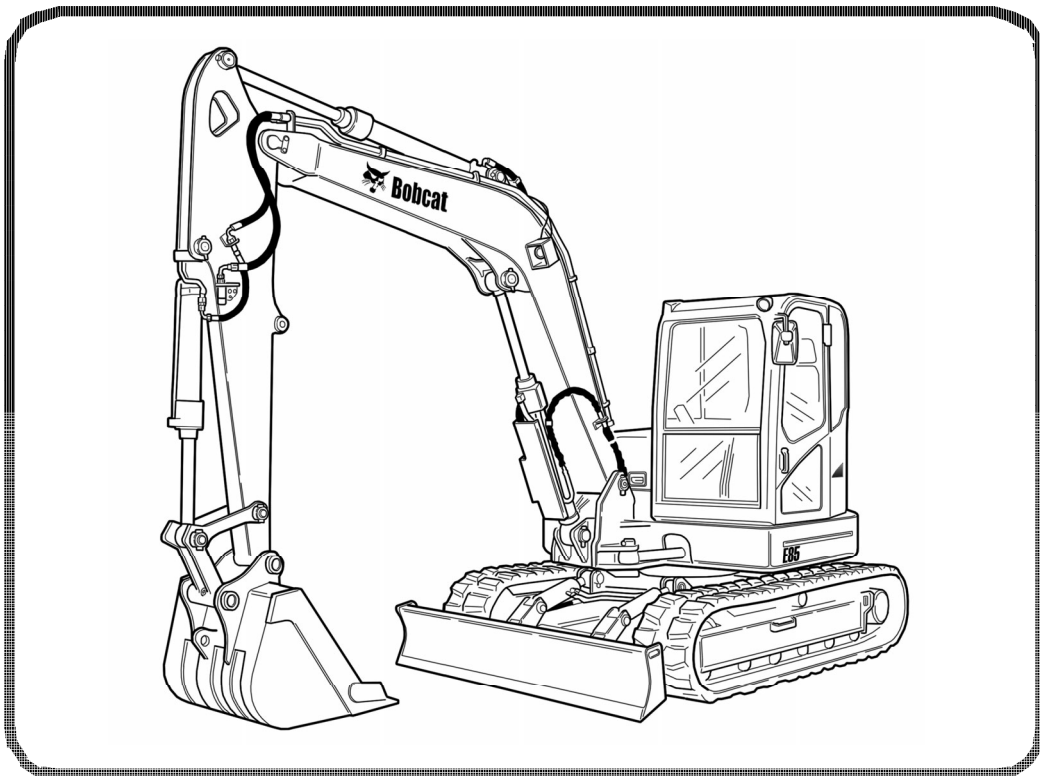
EN

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## Operation & Maintenance Manual E85 Compact Excavator

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S/N B34S11001 & Above



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## REFERENCE INFORMATION

Write the correct information for YOUR Bobcat excavator in the spaces below. Always use these numbers when referring to your Bobcat excavator.

Excavator Serial Number \_\_\_\_\_  
Engine Serial Number \_\_\_\_\_

NOTES:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

YOUR BOBCAT DEALER:

ADDRESS:

PHONE:



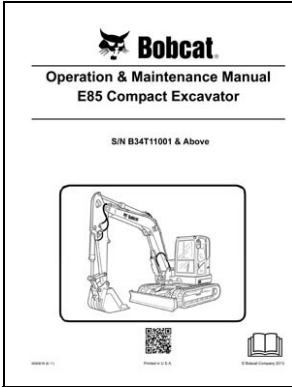
Bobcat Company  
P.O. Box 128  
Gwinner, ND 58040-0128  
UNITED STATES OF AMERICA

Doosan Bobcat Manufacturing s.r.o.  
U Kodetky 1810  
263 12 Dobris  
CZECH REPUBLIC

## PUBLICATIONS AND TRAINING RESOURCES

The following publications are also available for your Bobcat excavator. You can order them from your Bobcat dealer.

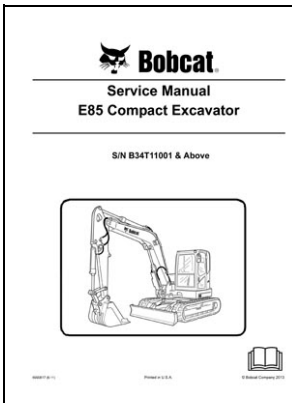
For the latest information on Bobcat product and the Bobcat Company, visit our web site at **Bobcat.com**



### OPERATION & MAINTENANCE MANUAL

6990616enGB

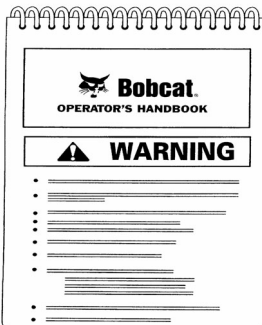
Complete instructions on the correct operation and the routine maintenance of the Bobcat excavator



### SERVICE MANUAL

6990617enUS

Complete maintenance instructions for your Bobcat excavator



### OPERATOR'S HANDBOOK

6990800enGB

Gives basic operation instructions and safety warnings



# MACHINE SIGNS (DECALS) (CONT'D)

Follow the instructions on all the Machine Signs (Decals) that are on the excavator. Replace any damaged machine signs and be sure they are in the correct locations. Machine signs are available from your Bobcat excavator dealer.

**7** 7169014

ISO ISO

7168996 - Standard Machines  
7193274 - If Equipped w/ Articulated Boom

**ON RIGHT REAR WINDOW**

S ≤ 15 mg/kg

86232 SW 7238123

Bobcat

7120570

6533898 - Standard Machines

**8**

7169009

**9**

**ON RIGHT SIDE COVER**

Model	A		B		C		D	
	mm	kg	mm	kg	mm	kg	mm	kg
6000 mm	11927 kg	11927 kg	11927 kg	11927 kg	11927 kg	11927 kg	11927 kg	11927 kg
6500 mm	12927 kg	12927 kg	12927 kg	12927 kg	12927 kg	12927 kg	12927 kg	12927 kg
7000 mm	13927 kg	13927 kg	13927 kg	13927 kg	13927 kg	13927 kg	13927 kg	13927 kg
7500 mm	14927 kg	14927 kg	14927 kg	14927 kg	14927 kg	14927 kg	14927 kg	14927 kg
8000 mm	15927 kg	15927 kg	15927 kg	15927 kg	15927 kg	15927 kg	15927 kg	15927 kg
8500 mm	16927 kg	16927 kg	16927 kg	16927 kg	16927 kg	16927 kg	16927 kg	16927 kg
9000 mm	17927 kg	17927 kg	17927 kg	17927 kg	17927 kg	17927 kg	17927 kg	17927 kg
9500 mm	18927 kg	18927 kg	18927 kg	18927 kg	18927 kg	18927 kg	18927 kg	18927 kg
10000 mm	19927 kg	19927 kg	19927 kg	19927 kg	19927 kg	19927 kg	19927 kg	19927 kg

7231564 - Short Arm  
7231565 - Long Arm  
7280940 - Articulated Boom

6595014

**2**

7120571 (2)

6595014 (2)

**10**

7318891

7238582

7120573

**IN ENGINE COMPARTMENT**

7120579

NA5963

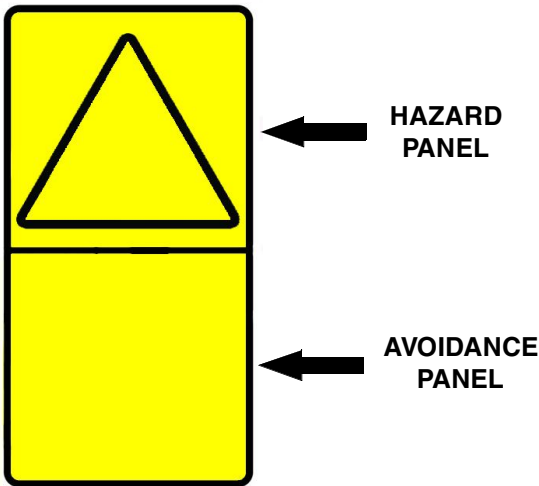
Dealer Conv. -- Not for Resale

## MACHINE SIGNS (DECALS) (CONT'D)

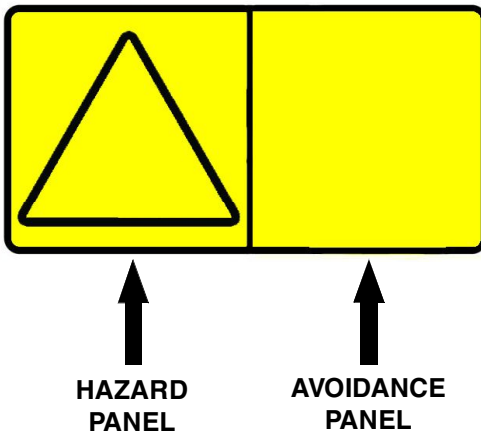
### Pictorial Only Safety Signs

Safety signs are used to alert the equipment operator or maintenance person to hazards that may be encountered in the use and maintenance of the equipment. The location and description of the safety signs are detailed in this section. Please become familiarized with all safety signs installed on the excavator.

*Vertical Configuration*



*Horizontal Configuration*



The format consists of the hazard panel(s) and the avoidance panel(s):

Hazard panels depict a potential hazard enclosed in a safety alert triangle.

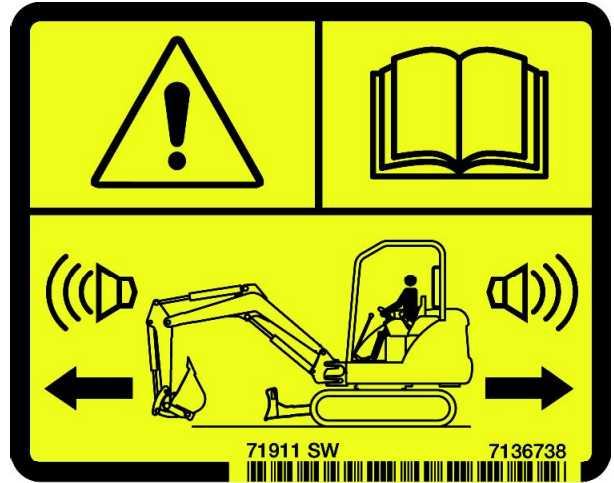
Avoidance panels depict actions required to avoid the hazards.

A safety sign may contain more than one hazard panel and more than one avoidance panel.

**NOTE: See the numbered MACHINE SIGNS (DECALS) on Page 24 and Machine Signs (Decals) (Cont'd) on Page 25 for the machine location of each corresponding numbered pictorial only decals as shown below.**

#### 1. Motion Alarm (7136738)

This safety sign is located on the right rear console.



**This machine is equipped with a motion alarm.  
ALARM MUST SOUND!  
when operating forward or backward.**

**Failure to maintain a clear view in the direction of travel could result in serious injury or death.**

**The operator is responsible for the safe operation of this machine.**

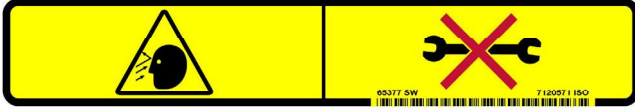
W-2786-0309

**MACHINE SIGNS (DECALS) (CONT'D)**

**Pictorial Only Safety Signs (Cont'd)**

**2. Thrown or Flying Objects (7120571)**

This safety sign is located on the gas spring in the engine compartment and in the cab.

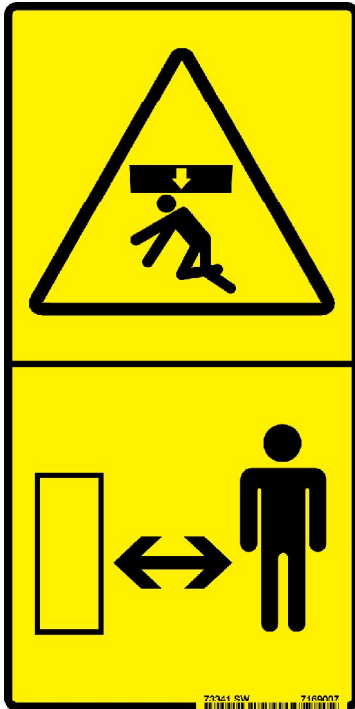


High pressure gas can cause serious injury or death. Do not open. Opening cylinder can release rod.

W-2523-0106

**3. Crush Hazard (7169007)**

This safety sign is located on both sides of the boom.

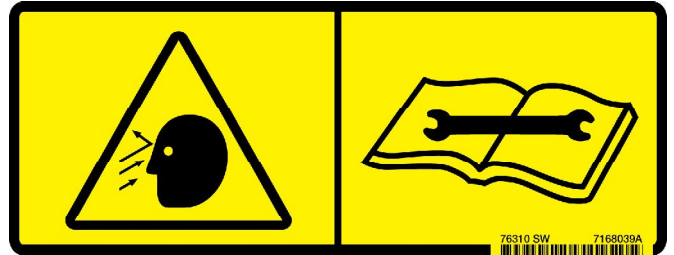


Keep away from the operating machine to avoid serious injury or death.

W-2520-0106

**4. Thrown Or Flying Objects (7168039)**

This safety sign is located on the outside of both tracks.



High pressure grease can cause serious injury. Do not loosen grease fitting. Do not loosen bleed fitting more than 1 - 1/2 turns.

Read and understand the Operation & Maintenance Manual for more information.

W-2516-0110

**5. Transporting And Lifting (7178215)**

This safety sign is located on the front of the cab.



Improper loading, transporting and lifting procedures can cause serious injury or death. Read and understand the Operation & Maintenance Manual prior to transporting or lifting the machine.

W-2517-0110

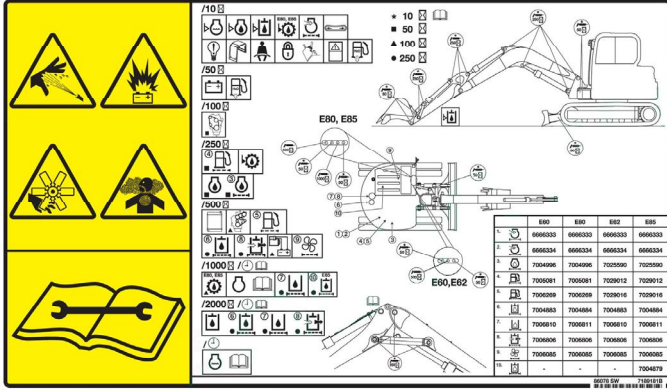
Dealer Copy -- Not for Resale

## MACHINE SIGNS (DECALS) (CONT'D)

### Pictorial Only Safety Signs (Cont'd)

#### 6. High Pressure, Battery, Rotating Fan, Exhaust Gases and Service Schedule (7189181)

This safety sign is located under the right side cover in the engine compartment. For Service Schedule Information, (See SERVICE SCHEDULE on Page 119.)



Leaking fluids under pressure can enter the skin and cause serious injury or death. Immediate medical attention is required. Wear goggles. Use cardboard to check for leaks.

Battery makes flammable and explosive gas. Keep arcs, sparks, flames and lighted tobacco away. Keep away from electrical contacts

Rotating fan can cause serious injury. Keep away from fan and moving parts. Do not operate with guard removed.

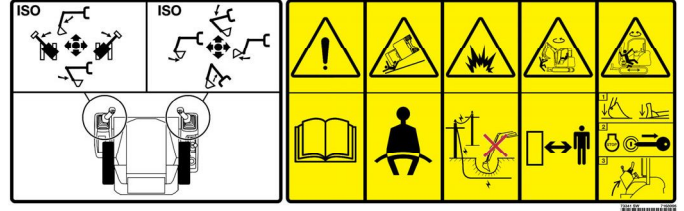
All exhaust gases can kill. Always ventilate.

Read and understand the Operation & Maintenance Manual for more information.

W-2522-0110

#### 7. General Hazard (7168996 or 7193274)

This safety sign is located inside the operator's area on the right rear window. For Control Pattern Information - (See TRAVEL CONTROLS on Page 54.)



Failure to obey warning signs and instructions can cause serious injury or death. Never use excavator without instructions. Read and understand the Operation & Maintenance Manual and Handbook.

Keep away from dropoffs, steep areas or banks that could break away.

Explosion or electrocution can occur if machine contacts utility lines or pipes. Check for overhead or underground lines before operating.

Keep bystanders away. No riders. Check location of blade for direction of travel before moving steering controls.

Failure to operate machine from the operator's position can cause serious injury or death.

To Leave Excavator:

1. Lower attachment and blade to ground.
2. Stop engine and remove the key (if equipped).
3. Raise control console.

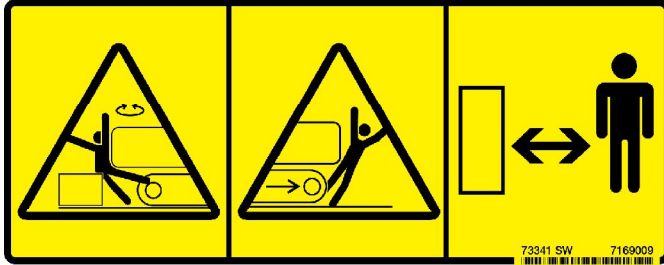
W-2518-0110

**MACHINE SIGNS (DECALS) (CONT'D)**

**Pictorial Only Safety Signs (Cont'd)**

**8. Stay Away (7169009)**

This safety sign is located on both upper rear corners of the upperstructure.



**AVOID INJURY OR DEATH**

- Keep out of swing area or travel path.
- Always look in the direction of travel.
- Make sure swing area is clear of bystanders and objects.

W-NEW-1108

**9. Lift Capacity (7231564, 7231565 or 7280940)**

This safety sign is located on the right side cover.

A	B			kg @ max. B	B			kg @ max. B	B			kg @ max. B
	3000 mm	4000 mm	5000 mm		3000 mm	4000 mm	5000 mm		3000 mm	4000 mm	5000 mm	
6000 mm		*1757 kg		*1817 kg @ 4280 mm		*1757 kg		1844 kg @ 4280 mm		1884 kg		1454 kg @ 4280 mm
4000 mm		*1707 kg	*1707 kg	*1607 kg @ 5130 mm		*1707 kg	1364 kg	1314 kg @ 5130 mm		1684 kg	1104 kg	1104 kg @ 5130 mm
8000 mm	*2507 kg	*1757 kg	*1967 kg	*1547 kg @ 5620 mm	*2507 kg	*1997 kg	1364 kg	1024 kg @ 5620 mm	*2507 kg	1614 kg	1084 kg	854 kg @ 5620 mm
2000 mm	*3777 kg	*2447 kg	*1937 kg	*1577 kg @ 6860 mm	3114 kg	1924 kg	1324 kg	984 kg @ 6860 mm	2384 kg	1514 kg	1034 kg	764 kg @ 6860 mm
1000 mm	*3307 kg	*2857 kg	*2117 kg	*1687 kg @ 5890 mm	2894 kg	1824 kg	1264 kg	854 kg @ 5890 mm	2194 kg	1414 kg	984 kg	734 kg @ 5890 mm
Ground	*4327 kg	*3007 kg	*2187 kg	*1767 kg @ 5720 mm	2834 kg	1784 kg	1234 kg	894 kg @ 5720 mm	2134 kg	1354 kg	1054 kg	764 kg @ 5720 mm
-1000 mm	*4167 kg	*2867 kg	*2037 kg	*1777 kg @ 5310 mm	2844 kg	1744 kg	1224 kg	1114 kg @ 5310 mm	2134 kg	1344 kg	944 kg	864 kg @ 5310 mm



**Overload can tip the excavator and cause serious injury or death.**

- Do not lift or hold any load that exceeds these ratings at their specific load radii and height.
- Total rated load is shown. The weight of all lifting devices must be deducted to determine the net load that can be lifted.

**Read and understand the Operation & Maintenance Manual for more information.**

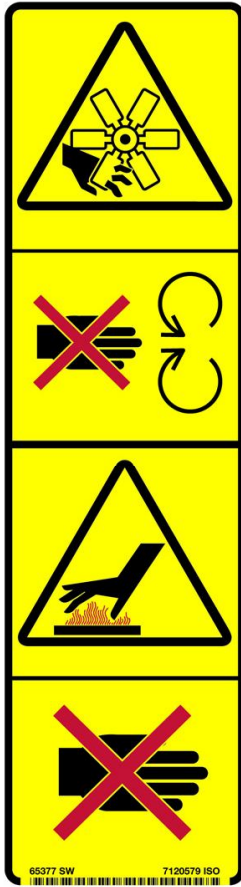
W-2519-0110

## MACHINE SIGNS (DECALS) (CONT'D)

### Pictorial Only Safety Signs (Cont'd)

#### 10. Hot Surfaces and Rotating Fan (7120579)

This safety sign is located inside the engine compartment.



Rotating fan blade can cause serious injury or death. Keep away from fan and moving parts. Do not operate with guard removed.

Hot surfaces can cause injury. Do not touch. Allow to cool before servicing.

W-2521-0106