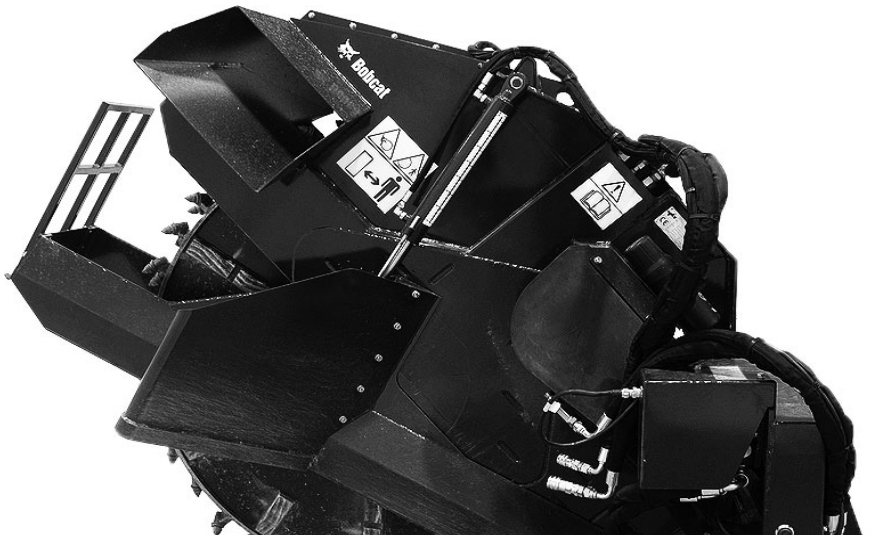
EN

# Bobcat®

# Operation & Maintenance Manual




## WS32 Wheel Saw

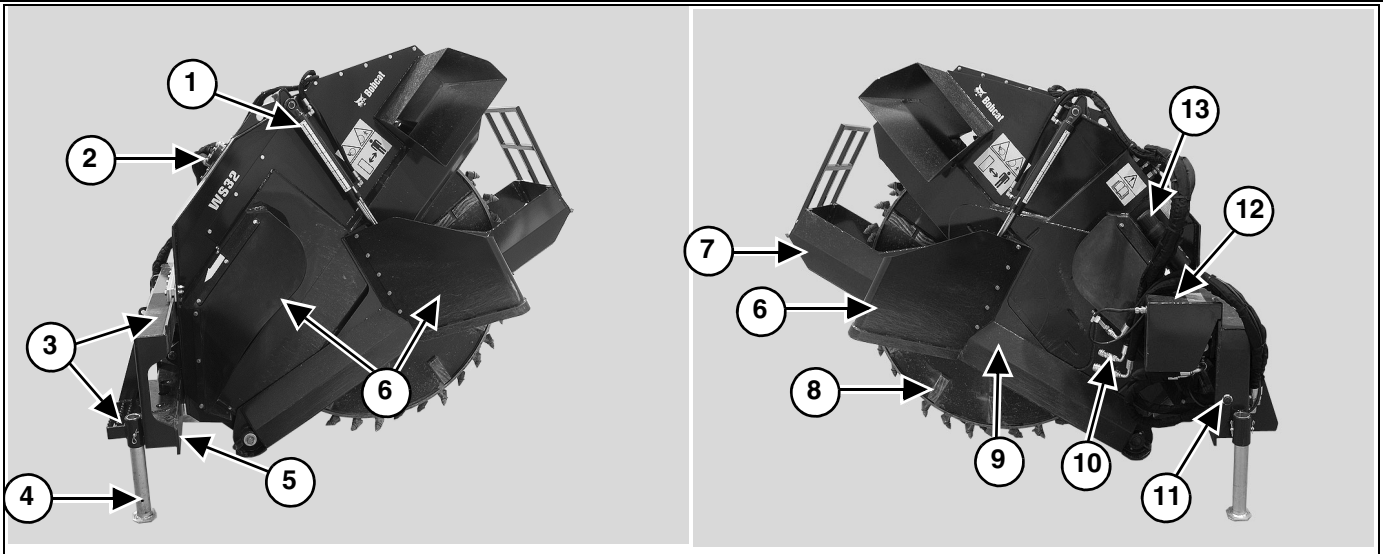
**S/N AR2K00101 & Above**



6989784enGB (10-19) (D)

Printed in Belgium

**ATTACHMENT IDENTIFICATION**



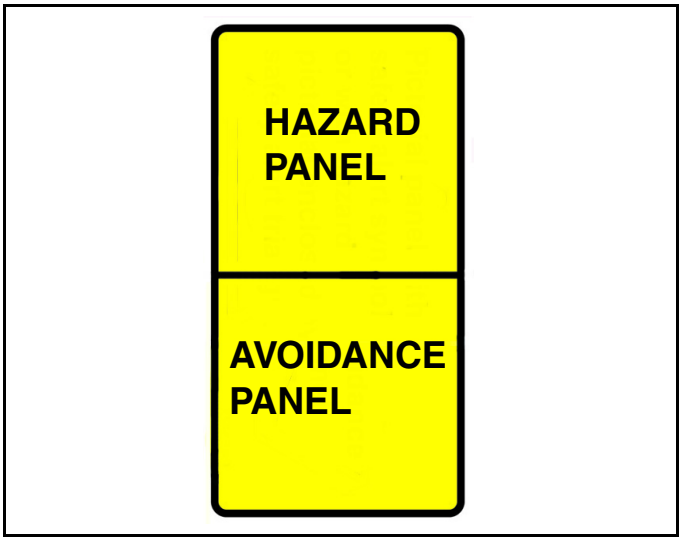

S38401
S38400

| ITEM | DESCRIPTION | ITEM | DESCRIPTION |
|---|---|---|---|
| **1** | Depth Cylinder | **8** | Cutting Wheel |
| **2** | Safety Cap | **9** | Hydraulic Motor |
| **3** | Steps | **10** | Hydraulic Couplers |
| **4** | Support Stands | **11** | Side Shift Cylinder |
| **5** | Bob-Tach® Mounting Frame | **12** | Hydraulic Control Valve |
| **6** | Spoil Deflector | **13** | Operator Manual |
| **7** | Depth Adjustment Frame | | |

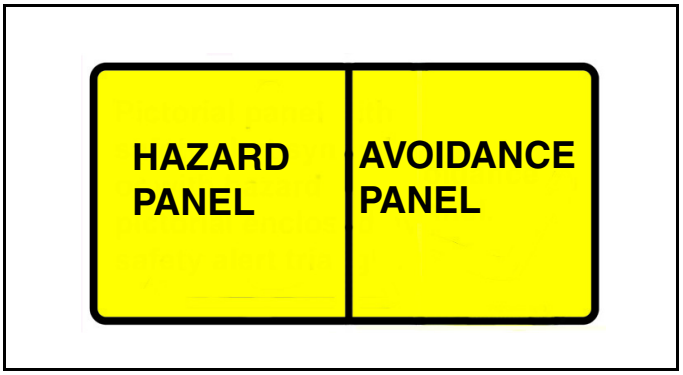
**Pictorial Only Safety Signs**

Safety signs are used to alert the equipment operator or service person to hazards that can 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 familiarised with all safety signs installed on the machine / attachment.

*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 can contain more than one hazard panel and more than one avoidance panel.

**NOTE: (See ATTACHMENT SIGNS (DECALS) on Page 20.) for the machine location of each correspondingly numbered pictorial only decal.**

**1. General Hazard Warning (7130143)**

This safety sign is located on the left side of the wheel saw.

**WARNING**

**AVOID INJURY OR DEATH**

**Never use the attachment without instructions. Read the Operation & Maintenance Manual.**

W-2850-0410

**Installation (Cont'd)**

*Hand Lever Bob-Tach*

**NOTE: The illustrations and instructions provided explain how to install a bucket attachment on to a machine. Follow these same instructions if you are installing different attachments such as a grapple, tiller, combo bucket, etc.**

**The attachment mounting frame for the attachment has a top flange that is designed to receive the top edge of the Bob-Tach and the lower part of the frame is designed to receive the Bob-Tach wedges.**

## ⚠ WARNING

**The signal word WARNING on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

W-2044-1107

## ⚠ WARNING

**Before you leave the operator's position:**
- **Lower the lift arm(s) fully.**
- **Stop the engine and engage the parking brake.**
- **Move all pedals, handles, joysticks, and other controls until they are LOCKED or in the NEUTRAL position.**

**SEE THE MACHINE OPERATION & MAINTENANCE MANUAL FOR MORE INFORMATION.**

**W-2500-0404**

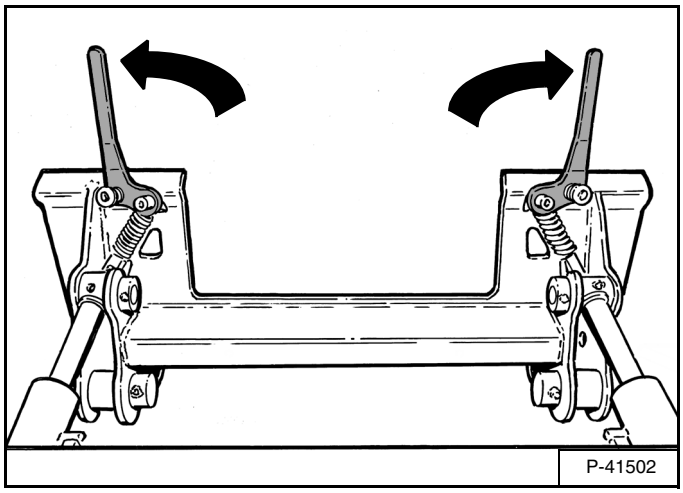
Always inspect the machine's Bob-Tach and the attachment mounting frame before installation. See your machine's Operation & Maintenance Manual.

## ⚠ WARNING

**Bob-Tach levers have spring tension. Hold lever tightly and release slowly. Failure to obey warning can cause injury.**

W-2054-1285

**Figure 22**

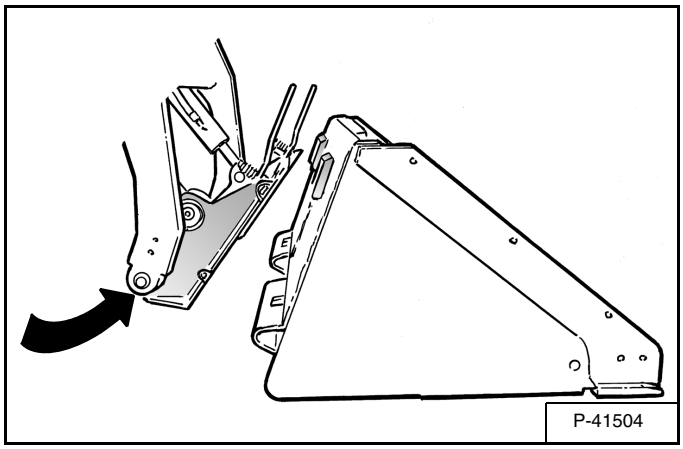



Pull the Bob-Tach levers all the way up **[Figure 22]**.

Move to the operator's position and fasten seat belt.

Start the engine and release the parking brake.

**Figure 23**




Tilt the Bob-Tach forward slightly **[Figure 23]**.

Drive the machine slowly forward until the top edge of the Bob-Tach is completely under the top flange of the attachment mounting plate.

**NOTE: Be sure the Bob-Tach levers do not hit the attachment.**

## ⚠ WARNING

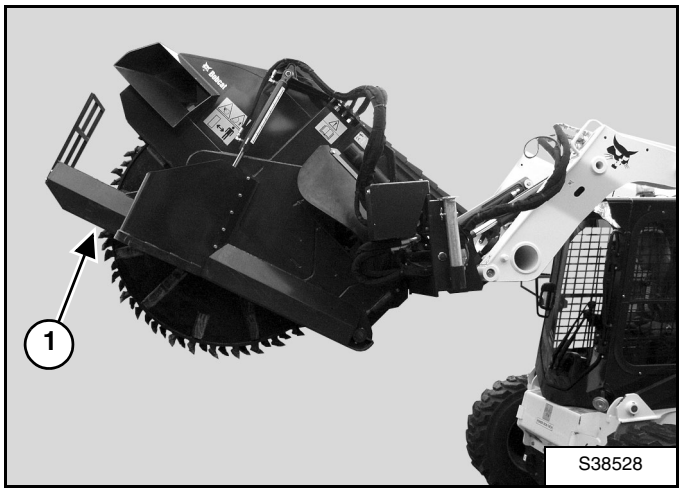
**Before you leave the operator's position:**
- **Lower the lift arm(s) fully.**
- **Stop the engine and engage the parking brake.**
- **Move all pedals, handles, joysticks, and other controls until they are LOCKED or in the NEUTRAL position.**

**SEE THE MACHINE OPERATION & MAINTENANCE MANUAL FOR MORE INFORMATION.**

W-2500-0404

**Operation With The Loader (Cont'd)**

**Figure 46**



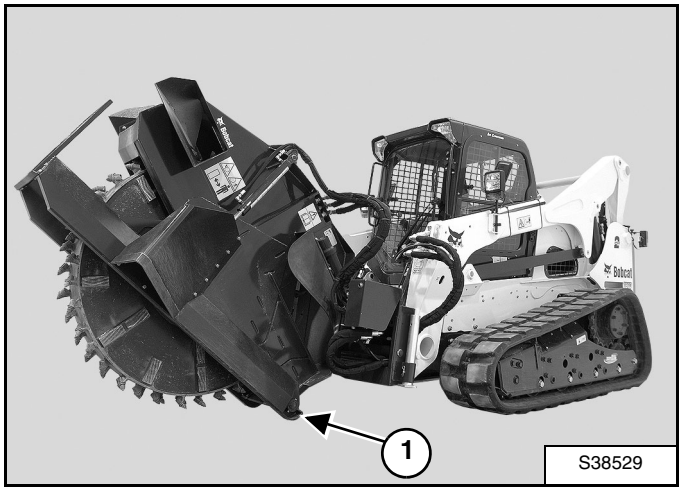

Fully lower the wheel saw depth frame (Item 1) **[Figure 46]**. (See Adjust Wheel Saw Depth on Page 39.)

**⚠ WARNING**

**Activating the side shift or depth control at any time will automatically activate wheel rotation.**

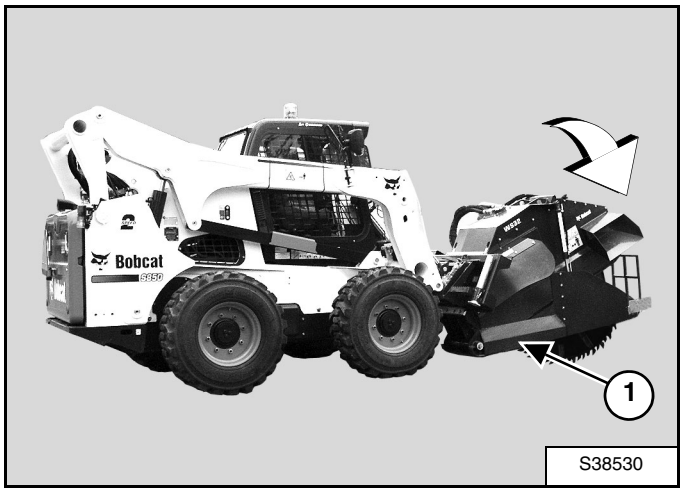
W-3030-0518

**Figure 47**




Slowly lower the wheel saw into the surface to be cut until the back edge of the frame (Item 1) **[Figure 47]** is on the material surface.

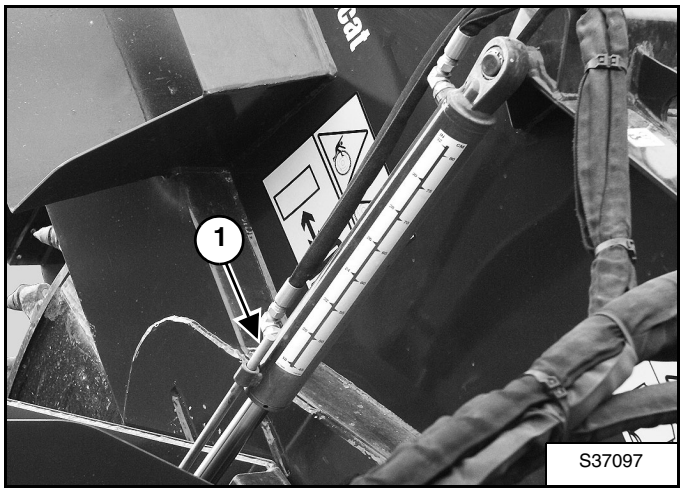
**Figure 48**




Tilt the wheel saw forward until the wheel saw frame (Item 1) **[Figure 48]** is fully on the work surface. Lower the lift arms until the loader front tires are slightly off of the ground.

**NOTE: Proper operation of the wheel saw requires most of the weight from the front of the loader to be placed on the attachment by lowering the lift arms until the loader front tires are slightly off of the ground. This transfer of weight will result in smoother and faster cutting.**

**Figure 49**




Adjust the depth of the cut by slowly raising the depth frame and allowing the wheel saw to continue to cut deeper into the material until the correct cutting depth is obtained. The depth gauge (Item 1) **[Figure 49]** gives the approximate cutting depth.

**⚠ WARNING**

**AVOID INJURY OR DEATH**

**Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.**

**W-2003-0807**

If the wheel saw is not working correctly, check the hydraulic system of the loader thoroughly before making any repairs on the wheel saw. Wheel saw problems can be affected by a hydraulic system that is not operating to specifications.

If the loader operation is found to be correct, use the following troubleshooting chart to locate and correct problems with the wheel saw.

**Chart**

| PROBLEM | CAUSE | CORRECTION |
|---|---|---|
| Wheel saw will not rotate. | Auxiliary hydraulics not activated. | Activate auxiliary hydraulics. |
| | Hydraulic couplers not fully connected. | Check hydraulic connections. |
| | Wheel saw bits are contacting the ground when start-up is attempted. | Raise the wheel saw off ground before engaging auxiliary hydraulics. |
| | Electrical solenoids on wheel saw disconnected or defective. | Check all electrical connections. Repair and/or replace solenoids. |
| | Control Valve on wheel saw damaged or defective. | Repair and/or replace control valve. |
| Wheel saw looses power. | Travel speed is too fast. | Move loader at a slower rate. |
| | Loss of hydraulic flow. | Make sure High Flow hydraulics are activated. |
| | Loader relief valve not set to specification. | Check loader relief valve setting. |
| | Hydraulic pump flow insufficient. | Check hydraulic pump flow. |
| Wheel saw will not side shift. | Debris obstructing side shift function. | Check area around side shift cylinder for any obstructions. |
| | Electrical solenoids on wheel saw disconnected or defective. | Check all electrical connections. Repair and/or replace solenoids. |
| | Control Valve on wheel saw damaged or defective. | Repair and/or replace control valve. |
| | Bolts on side shift carriage are overtightened. | Torque bolts to specification, then back-off a quarter turn. |
| Wheel saw depth frame will not lower or raise. | Debris obstructing depth frame movement. | Clean all areas around depth frame. |
| | Electrical solenoids on wheel saw disconnected or defective. | Check all electrical connections. Repair and/or replace solenoids. |
| Tool bits wear unevenly. | Bits are not rotating in their housings. | (See Tool Bit Inspection And Replacement on Page 54.) |
| Wheel saw vibrates. | Wheel saw frame not positioned firmly on work surface. | The wheel saw frame should be fully on the work surface. |
| | Not enough loader weight on the wheel saw. | Raise loader front wheels slightly off of the ground to add additional weight. |
| Wheel saw jams. | Too much material feed into the wheel saw. | Turn off the wheel saw. Back off (move forward).<br>Turn on the wheel saw and proceed with the cut at a lower travel speed. |

# SPECIFICATIONS



Certain specification(s) are based on engineering calculations and are not actual measurements. Specification(s) are provided for comparison purposes only and are subject to change without notice. Specification(s) for your individual Bobcat equipment will vary based on normal variations in design, manufacturing, operating conditions and other factors