



EN

Operation & Maintenance Manual

Skid-Steer Loader



S66 S/N: B51U11001

OPERATOR SAFETY WARNINGS



- Never operate without instructions. Read machine signs (decals), Operation & Maintenance Manual, and Operator's Handbook.
- Operator must have instructions before operating the machine. Untrained operators can cause injury or death.

SAFETY EQUIPMENT

The Bobcat machine must be equipped with safety items necessary for each job. Ask your Bobcat dealer for information on the availability and safe use of attachments and accessories.

- SEAT BELT: Check belt fasteners and check for damaged webbing or buckle.
- SEAR BAR: When up, it must lock loader controls.
- OPERATOR CAB (ROPS AND FOPS): It must be on the loader with all fasteners tight.
- OPERATOR'S HANDBOOK: Must be in the cab.
- SAFETY SIGNS (DECALS): Replace if damaged.
- SAFETY TREADS: Replace if damaged.
- GRAB HANDLES: Replace if damaged.
- LIFT ARM SUPPORT: Replace if damaged.
- PARKING BRAKE
- BOBCAT INTERLOCK CONTROL SYSTEM (BICS)

OPERATOR SAFETY WARNINGS



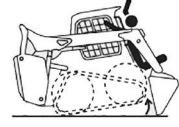
This Safety Alert Symbol means: "Attention! Be Alert! Your Safety is Involved!" Carefully read the message that follows.



- Always fasten seat belt snugly and use the seat bar.
- Always keep feet on foot pedals or footrests when operating.



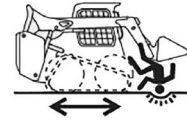
- Never exceed Rated Operating Capacity (ROC).
- Always carry bucket or attachment as low as possible.
- Do Not travel or turn with the lift arms up.
- Load, unload, and turn on flat level ground.



- Never leave loader with engine running or with lift arms up.
- To park: engage parking brake, put attachment flat on the ground, and stop the engine.



- Never use machine without operator cab with ROPS and FOPS approval.
- Fasten your seat belt!



- Never carry riders.
- Keep bystanders away from work area.



- Never modify equipment.
- Use only attachments approved by Bobcat Company for this machine model.



- Do Not use machine in atmosphere with explosive dust, explosive gas, or where exhaust can contact flammable material.



- Never use loader as a personnel lift or work platform.

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DECLARATION OF CONFORMITY

Contents of EC Declaration of Conformity					
<p>This information is provided in the operators manual to comply with clause 1.7.4.2(c) of Annex I of Machinery Directive 2006/42/EC.</p> <p>The official EC Declaration of Conformity is supplied in a separate document.</p>					
<p>Manufacturer</p>  <p>Bobcat Company World Headquarters 250 East Beaton Drive West Fargo, ND 58078-6000 UNITED STATES OF AMERICA</p>	<p>Directive 2000/14/EC: Noise Emission in the Environment by Equipment For Use Outdoors</p> <p>Notified Body</p> <p>Technical and Test Institute for Construction Prague Czech Republic Notified Body Number: 1020</p> <p>EC Certificate No.</p> <p>1020-090-022395</p>				
<p>Technical Documentation</p> <p>Homologation Manager Doosan Bobcat EMEA s.r.o U Kodetky 1810 26312 Dobris CZECH REPUBLIC</p>	<p>Conformity Assessment Procedure(s)</p> <p>2000/14/EC, Annex VIII, Full Quality Assurance</p> <p>Sound Power Levels [Lw(A)]</p> <table style="width: 100%; border: none;"> <tr> <td>Measured Sound Power</td> <td style="text-align: right;">100,2 dBA</td> </tr> <tr> <td>Guaranteed Sound Power</td> <td style="text-align: right;">101,0 dBA</td> </tr> </table>	Measured Sound Power	100,2 dBA	Guaranteed Sound Power	101,0 dBA
Measured Sound Power	100,2 dBA				
Guaranteed Sound Power	101,0 dBA				
<p>Description of Equipment</p> <p>Type of Equipment: Wheeled Loader Model Name: S66 Model Code: B51U</p> <p>Engine Manufacturer: Bobcat Company Engine Model: DM02VB DM02-MFL01 Engine Power: 55,2 kW @ 2600 rpm</p>	<p>Equipment conforms to CE Directive(s) Listed Below</p> <p>2006/42/EC: Machinery Directive 2014/30/EU: Electromagnetic Compatibility Directive</p>				
<p>Declaration of Conformance</p> <p>This equipment conforms to the requirements specified in all the EC Directives listed in this declaration.</p>					
<p>Effective From:</p> <p>10 August 2020</p>					

HYDROFLUOROCARBON DECLARATION

**DOOSAN BOBCAT****EMEA**

U Kodetky 1810

Dobris, 263 12

Czech Republic

T: +420 318 532 444

www.doosanbobcat.com**Declaration of conformity with Article 14 of Regulation (EU) No 517/2014 of the European Parliament and of the Council**

We Doosan Bobcat s. r. o. with VAT number CZ26489201, acting in its capacity as EU representative for the import of goods from CLARK EQUIPMENT COMPANY doing business as BOBCAT COMPANY, a corporation organized under the laws of the State of Delaware, USA with its registered address located at 250 East Beaton Drive, West Fargo, North Dakota, USA, declare under our sole responsibility that when placing on the market pre-charged equipment, which we import to or manufacture in the Union, the hydrofluorocarbons contained in that equipment are accounted for within the quota system referred to in Chapter IV of Regulation (EU) No 517/2014 as:

A. we hold authorisation(s) issued in accordance with Article 18(2) of Regulation (EU) No 517/2014 and registered in the registry referred to in Article 17 of that Regulation, at the time of release for free circulation to use the quota of a producer or importer of hydrofluorocarbons subject to Article 15 of Regulation (EU) No 517/2014 that cover (s) the quantity of hydrofluorocarbons contained in the equipment.

B. *[for importers of equipment only]* the hydrofluorocarbons contained in the equipment have been placed on the market in the Union, subsequently exported and charged into the equipment outside the Union, and the undertaking that placed the hydrofluorocarbons on the market made a declaration stating that the quantity of hydrofluorocarbons has been or will be reported as placed on the market in the Union and that it has not been and will not be reported as direct supply for export in the meaning of Article 15(2)(c) of Regulation (EU) No 517/2014 pursuant to Article 19 of Regulation (EU) No 517/2014 and Section 5C of the Annex to Commission Implementing Regulation (EU) No 1191/2014 (2).

C. *[for equipment manufactured in the Union only]* the hydrofluorocarbons charged into the equipment were placed on the market by a producer or importer of hydrofluorocarbons subject to Article 15 of Regulation (EU) No 517/2014.

Miguel Mallo Marcos

27th March, 2019

A handwritten signature in black ink, consisting of several overlapping, sweeping lines that form a complex, abstract shape. The signature is positioned below the text of the declaration.

INTRODUCTION

This Operation & Maintenance Manual was written to give the owner / operator instructions on the safe operation and maintenance of the Bobcat machine. Read and understand this Operation & Maintenance Manual before operating your Bobcat machine. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your machine.

Bobcat Company Is ISO 9001 Certified



ISO 9001 is an international standard that specifies requirements for a quality management system that controls the processes and procedures that we use to design, develop, manufacture, and distribute Bobcat products.

British Standards Institute (BSI) is the Certified Registrar that Bobcat Company chose to assess the company's compliance with ISO 9001 at Bobcat's manufacturing facilities in Gwinner, North Dakota (U.S.A.), Pontchâteau (France), and the Bobcat corporate offices (Gwinner, Bismarck, and West Fargo) in North Dakota. TÜV Rheinland is the Certified Registrar that Bobcat Company chose to assess the company's compliance with ISO 9001 at Bobcat's manufacturing facility in Dobříš (Czech Republic). Only certified assessors, like BSI and TÜV Rheinland, can grant registrations.

ISO 9001 means that as a company we say what we do and do what we say. In other words, we have established procedures and policies, and we provide evidence that the procedures and policies are followed.

MANUFACTURING LOCATIONS

North America

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128
United States of America

Czech Republic

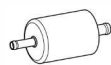
Doosan Bobcat EMEA s.r.o.
U Kodetky 1810
263 12 Dobris
Czech Republic

REGULAR MAINTENANCE ITEMS



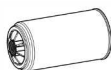
ENGINE OIL FILTER

7343102



FUEL FILTER, PRE-FILTER

7348032



FUEL FILTER, MAIN

7336334



FUEL TANK VENT FILTER

7340277



ENGINE AIR FILTER, OUTER

7386225



ENGINE AIR FILTER, INNER

7386224



HYDRAULIC MAIN FILTER, Kit with O-rings

7414582



HYDRAULIC CHARGE FILTER

7319444



HYDRAULIC RESERVOIR VENT FILTER

7390732



BATTERY

6987600

NOTE: Always verify Part Numbers with your Bobcat dealer.

FLUIDS, LUBRICANTS, AND FUEL

The fluids, lubricants, and fuel described below are those used in the factory and apply to operating conditions in European temperate climate areas. Please see your Bobcat dealer for requirements in other climate areas.

Read and understand the preventive maintenance required before adding or replacing any fluids or lubricants.

ENGINE SYSTEMS				
Machine Components	Fluids And Lubricants	Temperature Range	Packaging**	Part Number
Engine	Bobcat Engine Power SAE 10W30 CK4 / ACEA E9 Bobcat Engine Power SAE 15W40 CK4 / ACEA E9	-25°C - +30°C -20°C - +40°C	A, B, C, D A, B, C, D	7411377* 7395725
Cooling Circuit	Bobcat PG Coolant 4 Seasons	-36°C	A, B, C, D	6987791*
Fuel Tank	High-quality diesel fuel that meets EN590 (See Fuel Specifications on Page 144)	-	-	*

HYDRAULIC / HYDROSTATIC SYSTEMS				
Machine Components	Fluids And Lubricants	Temperature Range	Packaging**	Part Number
Hydraulic Fluid Tank	Bobcat Superior SH Hydraulic / Hydrostatic Bobcat Biodegradable Hydraulic / Hydrostatic	-35°C - +50°C -35°C - +50°C	A, B, C, D A, B, C, D	6987791* 6987792

MECHANICAL SYSTEMS				
Machine Components	Fluids And Lubricants	Drop Point	Packaging**	Part Number
All Mechanical Systems	Bobcat Multipurpose Grease Bobcat Supreme HD Grease Bobcat Extreme HP Grease	From 260°C From 280°C From 260°C	E E E	6987888* 6987889 6987890

(*) Factory Filled Fluids And Lubricants

(**) Packaging Available:

A = 5 L Can

B = 25 L Container

C = 209 L Drum

D = 1000 L Tank

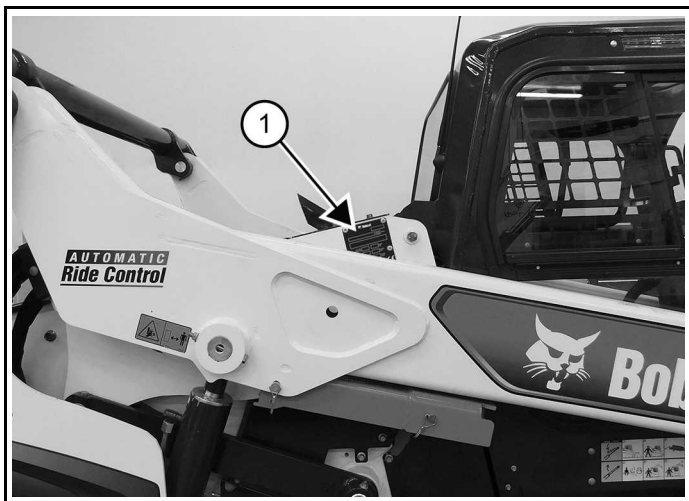
E = 400 g Tube

SERIAL NUMBER LOCATIONS

Always use the serial number of the machine when requesting service information or when ordering parts. Earlier or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure to do a specific service operation.

Machine Serial Number Location

Figure 1

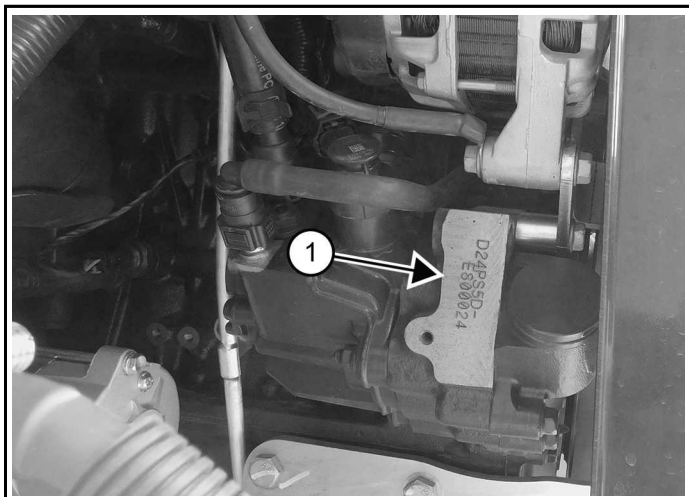


C201161C

The machine serial number plate (Item 1) [Figure 1] is located on the right rear of the machine frame.

Engine Serial Number Location

Figure 2

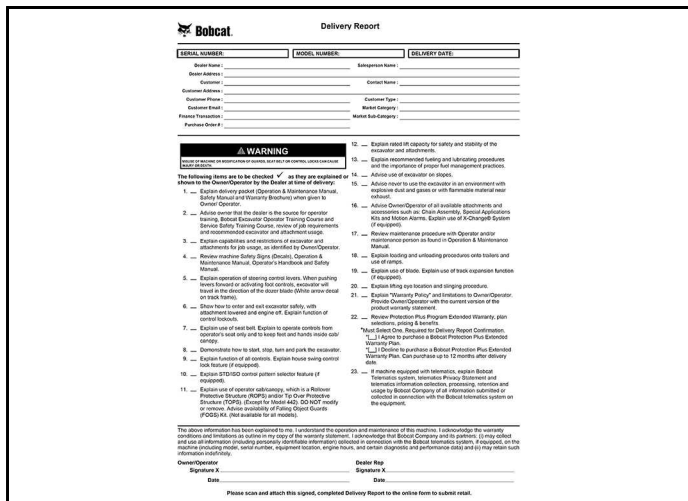


C201161a

The engine serial number (Item 1) [Figure 2] is located on the left side of the engine below the alternator.

DELIVERY REPORT

Figure 3



NA15473

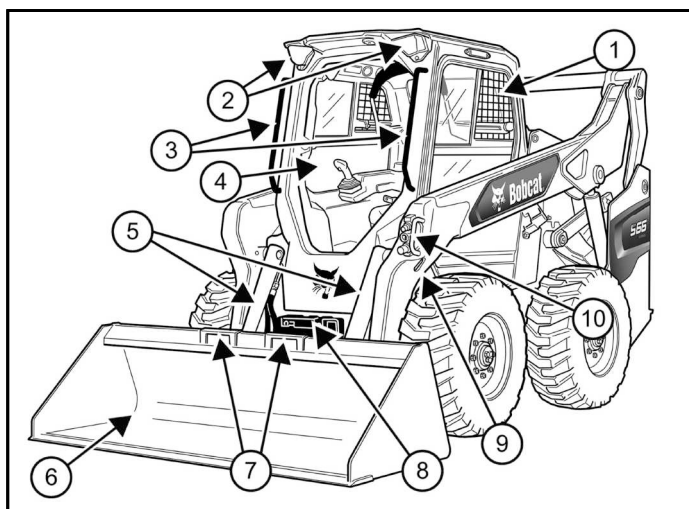
The delivery report contains a list of items that must be explained or shown to the owner or operator by the dealer when the machine is delivered.

The delivery report must be reviewed and signed by the owner or operator and the dealer.

LOADER IDENTIFICATION

Front View

Figure 4



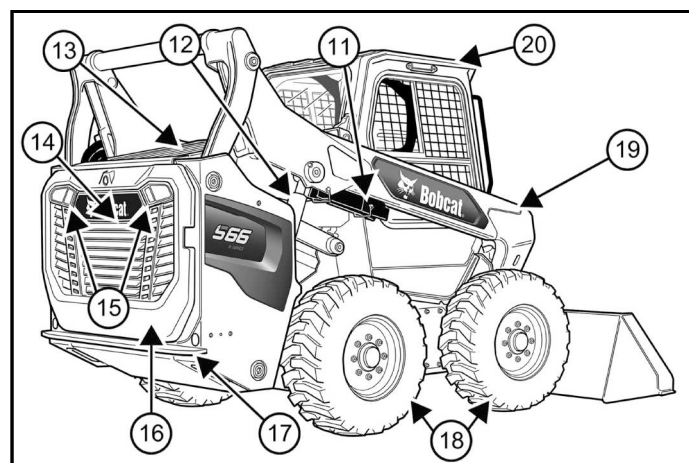
NA18598A

REF	DESCRIPTION
1	Operation & Maintenance Manual and Operator's Handbook
2	Front Lights
3	Grab Handles
4	Operator Seat with Seat Belt and Seat Bar
5	Tilt Cylinders
6	Bucket [A]
7	Bucket Steps
8	Step
9	Alternate Front Tie-down (Both Sides)
10	Front Auxiliary Quick Couplers

[A] Bucket — Several different buckets and other attachments are available for the Bobcat loader.

Rear View

Figure 5



NA18599A

REF	DESCRIPTION
11	Lift Arm Support
12	Lift Cylinder (Both Sides)
13	Rear Grille
14	Back-up Alarm
15	Rear Work Lights and Taillights
16	Rear Door
17	Rear Tie-down (Both Sides) Front Tie-down located behind Bucket
18	Tyres [A]
19	Lift Arm
20	Operator Cab (ROPS and FOPS) [B]

[A] Tyres — Standard tyres are shown. Several different tyre styles and sizes are available for the Bobcat loader.

[B] ROPS — Roll-Over Protective Structure per ISO 3471 and FOPS — Falling-Object Protective Structure per ISO 3449, Level I. Level II is available.

FEATURES, ACCESSORIES, AND ATTACHMENTS

Standard Items

This model S66 Bobcat loader is equipped with the following standard items:

- 55 kW Bobcat Engine Turbo Stage V Diesel Engine
- Adjustable Suspension Seat
- Auto Idle (Available only on SJC equipped loaders)
- Auxiliary Hydraulics: Variable Flow
- Back-up Alarm
- Battery Disconnect Switch
- Bobcat Interlock Control System (BICS™)
- Bobcat Standard Display
- Bob-Tach® Attachment Mounting System
- CE Certification
- Controls: Selectable Joystick Controls (SJC) (Selectable 'ISO' or 'H' Pattern Control)
- Cylinder Cushioning (Lift and Tilt)
- Electronic Engine Speed Control
- Enclosed Cab (includes: rear and side windows and polycarbonate top window) ROPS and FOPS (Level I) Approved
- Engine / Hydraulic Systems Protection
- Front Horn
- Glow Plugs (Automatically activated)
- Keyed Ignition
- LED Lights: Front and Rear
- Lift Arm Support
- Parking Brake
- SDPF Management with built-in spark arrester
- Seat Bar
- Seat Belt with 3-Point Restraint
- Sound Reduction (Reduces noise at operator ear)
- Tailgate Lock
- Tyres (Bobcat Heavy Duty, 10 – 16.5, 10 PR)

Options And Accessories

Below is a list of some equipment available from your Bobcat dealer as Dealer and / or Factory Installed Accessories and Factory Installed Options. See your Bobcat dealer for other available options and accessories.

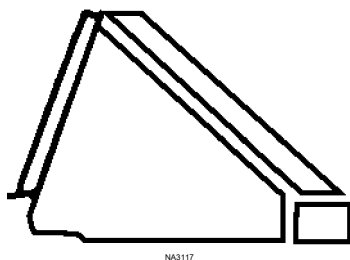
- Adjustable Heated Air Ride Suspension Seat
- Air Conditioning
- Attachment Control Device (ACD) (7-Pin, 14-Pin)
- Auto HVAC
- Automatic Ride Control
- Auxiliary Hydraulics Coupler Guard
- Bobcat Touch Display

- Cab Door with Emergency Exit
- Cab Heater
- Cab Reseal Plug Kit
- Clear Side Enclosed Cab
- Controls: Bobcat Standard
- Counterweight Kit
- Dual Direction Bucket Positioning (With On / Off Selection)
- Engine Block Heater
- Fire Extinguisher
- FOPS Kit (Level II)
- FOPS Window Kit
- Forestry Door and Window Kit
- Forestry Door Wiper
- Four-Way Flashers
- Front and Rear Light Guards
- High-Flow Auxiliary Hydraulics
- Hose Guide
- Hydraulic Muffler
- LED Side Lighting
- Lift Kit (Four-Point, Single-Point)
- Power Bob-Tach Attachment Mounting System
- Premium LED Front Lights
- Radio
- Rear Auxiliary Hydraulics
- Rear Bumper Kit
- Rear Camera Kit
- Rear Window Wiper
- Reversing Fan
- Road Kit
- Rotating Beacon
- Special Applications Kit
- Strobe Light
- Tailgate Guard Kit
- Tyres:
 - ▷ Bobcat Heavy Duty Offset, 10 – 16.5, 10 PR
 - ▷ Bobcat Severe Duty, 10 – 16.5, 10 PR
 - ▷ Bobcat Solidflex, 31 x 6 x 10
 - ▷ Bobcat Super Float, 31 x 12 – 16.5, 10 PR
- Two-Speed Travel
- Windows:
 - ▷ Externally Removable Rear Window
 - ▷ Polycarbonate Rear Window
 - ▷ Polycarbonate Side Windows

Specifications subject to change without notice and standard items may vary.

Buckets Available

Increase the versatility of your Bobcat machine with a variety of bucket styles and sizes.



Many bucket styles, widths, and different capacities are available for a variety of different applications. They include Construction and Industrial, Low Profile, Fertiliser, and Snow, to name a few. See your Bobcat dealer for the correct bucket for your Bobcat loader and application.

Attachments

These and other attachments are approved for use on this model loader. Do not use unapproved attachments. Attachments not manufactured by Bobcat may not be approved.

The versatile Bobcat loader quickly turns into a multijob machine with a tight-fit attachment hook-up ... from bucket to grapple to pallet fork, and a variety of other attachments.

See your Bobcat dealer for information about approved attachments and attachment Operation & Maintenance Manuals.

- Angle Broom
- Auger
- Bale Handler
- Blades — Box, Dozer, Snow, Snow V-Blade
- Breaker, Hydraulic
- Brush Saw
- Brushcat™ Rotary Cutter
- Buckets
- Combination Bucket
- Concrete Mixer
- Concrete Pump
- Digger
- Drop Hammer
- Dumping Hopper
- Flail Cutter
- Grader
- Grapples — Farm / Utility, Industrial, Root
- Landplane
- Landscape Rake
- Laser Equipment
- Mixing Bucket
- Pallet Fork
- Planer
- Pressure Washer
- Rock Bucket
- Rotary Grinder
- Scarifier
- Scraper
- Seeder
- Snow Pusher
- Snowblower
- Sod Layer
- Soil and Asphalt Spreader
- Soil Conditioner
- Spreader
- Stabiliser, Rear
- Stump Grinder
- Sweeper
- Tiller
- Tilt-Tatch™
- Tree Transplanter
- Trench Compactor
- Trencher
- Utility Fork
- Utility Frame
- Vibratory Roller
- Water Kit

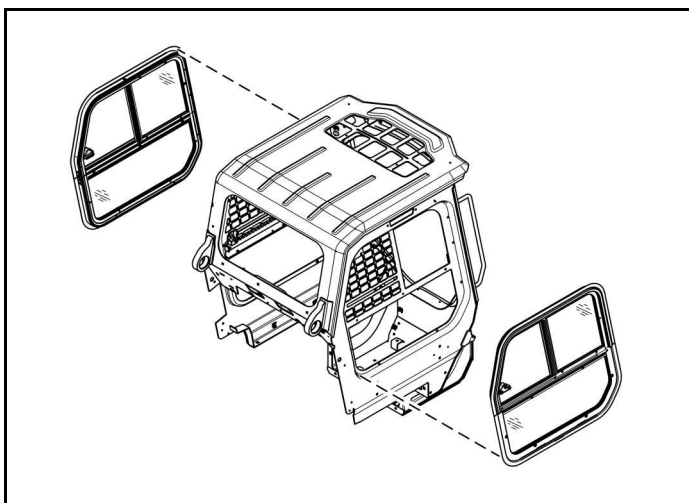
High-Flow Attachments

The following attachments are approved for use on High-Flow machines. See your Bobcat dealer for an updated list of approved attachments.

- Angle Broom
- Auger
- Brushcat™ Rotary Cutter
- Concrete Pump
- Flail Cutter
- Planer
- Rotary Grinder
- Snowblower
- Soil Conditioner
- Stump Grinder
- Tiller
- Trencher
- Wheel Saw
- Wood Chipper

Clear Side Enclosed Cab Option

Figure 6



NA18176

Depending on machine specifications, windows are provided to function as guards. Damaged windows must be replaced with those of equivalent specification before the machine is used again. The machine must not be used with the window removed. The clear side enclosed cab windows are polycarbonate [Figure 6].

⚠ DANGER

MODIFICATION HAZARD

Crushing can cause serious injury or death.

- **DO NOT** operate if cab side windows are damaged or missing.
- Replace damaged or missing windows with Bobcat approved parts only. ◀

131-F07853F8

Inspecting And Maintaining Clear Side Enclosed Cab Option

- Inspect for cracks or damage. Replace if required.
- Prerinse with water to remove gritty materials.
- Wash with a mild household detergent and warm water.
- Use a sponge or soft cloth. Rinse well with water and dry with a clean soft cloth or rubber squeegee.

⚠ IMPORTANT

MACHINE DAMAGE HAZARD

Avoid polycarbonate window damage:

- Do not use abrasive or highly alkaline cleaners.
- Do not use cleaners containing ammonia.
- Do not clean with metal blades or scrapers. ◀

12402

Special Applications Kit

⚠ WARNING

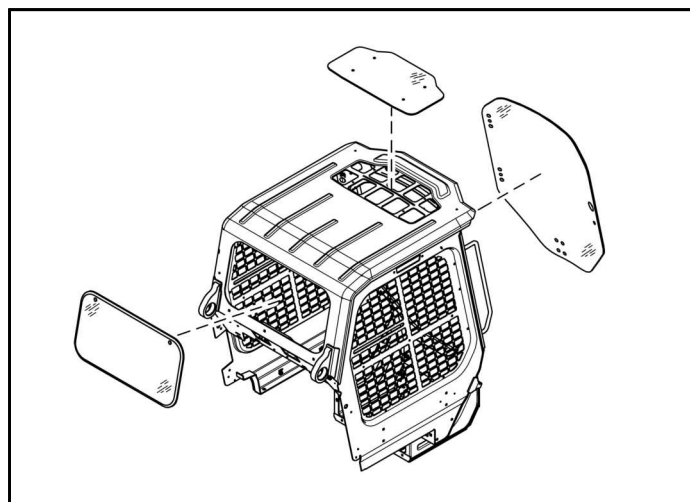
IMPACT AND PUNCTURE HAZARD

Flying debris or objects entering the operator cab due to can cause serious injury or death.

Some attachment applications can cause flying debris or objects to enter the front, top or rear cab openings. Install the Special Applications Kit and Top Guard (if applicable) to provide added operator protection in these applications. ◀

W2737

Figure 7



NA19571

Available for special applications to restrict material from entering cab openings. Kit includes 12,7 mm (0.5 in) thick polycarbonate front door and polycarbonate rear window [Figure 7].

Polycarbonate top window (standard item) must be installed for special applications to restrict material from entering cab openings.

See your Bobcat dealer for availability.

Inspecting And Maintaining Special Applications Kit

- Inspect for cracks or damage. Replace if required.
- Prerinse with water to remove gritty materials.
- Wash with a mild household detergent and warm water.
- Use a sponge or soft cloth. Rinse well with water and dry with a clean soft cloth or rubber squeegee.

⚠ IMPORTANT

MACHINE DAMAGE HAZARD

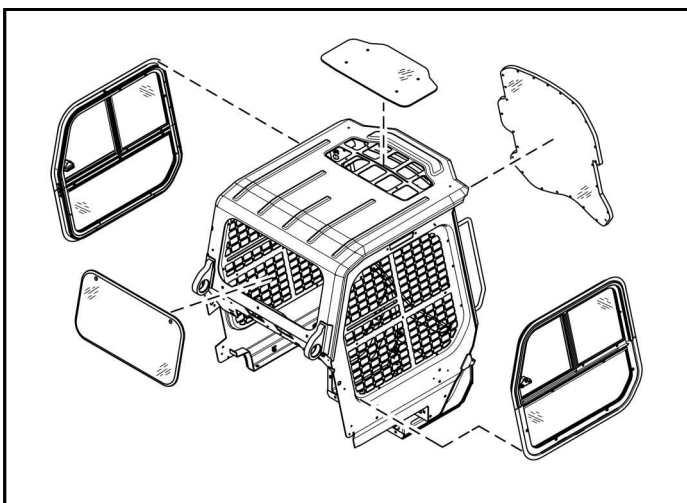
Avoid polycarbonate window damage:

- Do not use abrasive or highly alkaline cleaners.
- Do not use cleaners containing ammonia.
- Do not clean with metal blades or scrapers. ◀

12402

Forestry Door And Window Kit

Figure 8



NA15972

Available for special applications to prevent flying debris and objects from entering the cab. Kit includes 19,1 mm (0.75 in) thick laminated polycarbonate front door, polycarbonate side windows, and polycarbonate rear window [Figure 8].

Polycarbonate top window (standard item) must be installed as part of the Forestry Door And Window Kit to restrict material from entering cab openings.

The side windows of the clear side enclosed cab are polycarbonate and meet the side window requirements of the Forestry Door and Window kit to restrict material from entering cab openings.

Inspecting And Maintaining Forestry Door And Window Kit

- Inspect for cracks or damage. Replace if required.
- Order part number 7349287 if door frame is damaged and needs to be replaced.
- Order kit part number 7401369 if door polycarbonate is damaged and needs to be replaced.
- Prerinse with water to remove gritty materials.
- Wash with a mild household detergent and warm water.
- Use a sponge or soft cloth. Rinse well with water and dry with a clean soft cloth or rubber squeegee.

▲ IMPORTANT

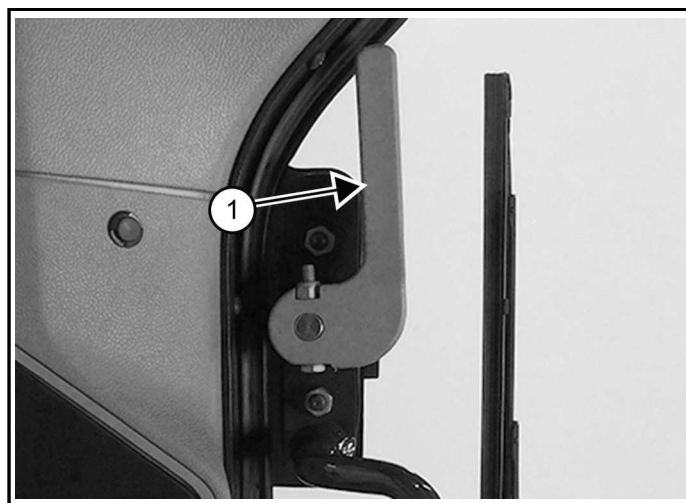
MACHINE DAMAGE HAZARD

Avoid polycarbonate window damage:
Do not use abrasive or highly alkaline cleaners.
Do not use cleaners containing ammonia.
Do not clean with metal blades or scrapers. ◀

1-2402

Forestry Door Emergency Exit

Figure 9



C200179b

- Inspect both emergency exit levers (Item 1) [Figure 9], linkages, and hardware for loose or damaged parts.
- Repair or replace if necessary.

SAFETY INSTRUCTIONS

Before Operation

Carefully follow the operating and maintenance instructions in this manual.

The Bobcat machine is highly manoeuvrable and compact. It is rugged and useful under a wide variety of conditions. This presents an operator with hazards associated with off motorway, rough terrain applications, common with Bobcat machine usage.

The Bobcat machine has an internal combustion engine with resultant heat and exhaust. All exhaust gases can kill or cause illness so use the machine with adequate ventilation.

The dealer explains the capabilities and restrictions of the Bobcat machine and attachment for each application. The dealer demonstrates the safe operation according to Bobcat instructional materials, which are also available to operators. The dealer can also identify unsafe modifications or use of unapproved attachments. The attachments and buckets are designed for a Rated Operating Capacity. They are designed for secure fastening to the machine. The user must check with the dealer, or Bobcat literature, to determine safe loads of materials of specified densities for the machine - attachment combination.

The following publications and training materials provide information on the safe use and maintenance of the Bobcat machine and attachments:

- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the machine and attachment are in safe operating condition.
- The Operation & Maintenance Manual delivered with the machine or attachment gives operating information as well as routine maintenance and service procedures. It is a part of the machine and can be stored in a container provided on the machine. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Machine signs (decals) instruct on the safe operation and care of your Bobcat machine or attachment. The signs and their locations are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat dealer.
- An Operator's Handbook is fastened to the operator cab of the machine. Its brief instructions are convenient for the operator. See your Bobcat dealer for more information on translated versions.

The dealer and owner / operator review the recommended uses of the product when delivered. If the owner / operator will be using the machine for a different application(s) he or she must ask the dealer for recommendations on the new use.

Safe Operation Is The Operator's Responsibility



Safety Alert Symbol

This symbol with a warning statement means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.

WARNING

INSUFFICIENT INSTRUCTIONS HAZARD
Untrained operators or failure to follow instructions can cause serious injury or death. Operators must have adequate training and instruction before operating. ◀

W-2007

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine. ◀

I-2019

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

DANGER

The signal word **DANGER** on machine signs and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury. ◀

D-1002

The machine and attachment must be in good operating condition before use.

Check all of the items on the Service Schedule decal in the Every 10 Hours section or as shown in the Operation & Maintenance Manual.

Safe Operation Needs A Qualified Operator

For an operator to be qualified, he or she must not use drugs or alcoholic drinks which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine.

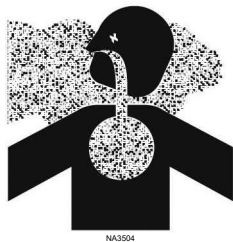
A Qualified Operator Must Do The Following

- Understand the written instructions, rules, and regulations.
 - The written instructions from Bobcat Company include the Delivery Report, Operation & Maintenance Manual, Operator's Handbook, and machine signs (decals).
 - Check the rules and regulations at your location. The rules may include an employer's work safety requirements. For driving on public roads, the machine must be equipped as stipulated by the

local regulations authorizing operation on public roads in your specific country. Regulations may identify a hazard such as a utility line.

- Have training with actual operation.
 - ▷ Operator training must consist of a demonstration and verbal instruction. This training is given by your Bobcat dealer before the product is delivered.
 - ▷ The new operator must start in an area without bystanders and use all the controls until he or she can operate the machine and attachment safely under all conditions of the work area. Always fasten seat belt before operating.
- Know the work conditions.
 - ▷ Know the weight of the materials being handled. Avoid exceeding the Rated Operating Capacity of the machine. Material that is very dense will be heavier than the same volume of less dense material. Reduce the size of load if handling dense material.
 - ▷ The operator must know any prohibited uses or work areas, for example, he or she needs to know about excessive slopes.
 - ▷ Know the location of any underground lines.
 - ▷ Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, respiratory equipment, hearing protection, or Special Applications Kits are required for some work. See your Bobcat dealer about Bobcat safety equipment for your model.

Silica Dust Exposure



Cutting or drilling concrete containing sand or rock containing quartz may result in exposure to silica dust. Use a respirator, water spray, or other means to control dust.

FIRE PREVENTION



Maintenance

The machine and some attachments have components that are at high temperatures under normal operating conditions. The primary source of high temperatures is the engine and exhaust system. The electrical system, if damaged or incorrectly maintained, can be a source of arcs or sparks.

Flammable debris (leaves, straw, etc.) must be removed regularly. If flammable debris is allowed to accumulate, it can cause a fire hazard. Clean often to avoid this accumulation. Flammable debris in the engine compartment is a potential fire hazard.

The operator's area, engine compartment, and engine cooling system must be inspected every day and cleaned if necessary to prevent fire hazards and overheating.

All fuels, most lubricants, and some coolants mixtures are flammable. Flammable fluids that are leaking or spilled onto hot surfaces or onto electrical components can cause a fire.

Operation

Do not use the machine where exhaust, arcs, sparks, or hot components can contact flammable material, explosive dust, or gases.

Electrical



Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part or wires that are loose or frayed.

Battery gas can explode and cause serious injury. Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting. Do not jump start or charge a frozen or damaged battery. Keep any open flames or sparks away from batteries. Do not smoke in battery charging area.

Hydraulic System

Check hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.

Always clean fluid spills. Do not use petrol or diesel fuel for cleaning parts. Use commercial non-flammable solvents.

Fuelling



P200084

Stop the engine and let it cool before adding fuel. No smoking! Do not refuel a machine near open flames or sparks. Fill the fuel tank outdoors.

Ultra Low Sulfur Diesel (ULSD) poses a greater static ignition hazard than earlier diesel formulations with higher sulfur content. Avoid death or serious injury from fire or explosion. Consult with your fuel or fuel system supplier to ensure the delivery system is in compliance with fuelling standards for proper earthing and bonding practices.

Starting

Do not use ether or starting fluids on any engine that has glow plugs or air intake heater. These starting aids can cause explosion and injure you or bystanders.

Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting.

Exhaust System

The exhaust system consisting of spark arrester, DOC (Diesel Oxidation Catalyst), or DPF (Diesel Particulate Filter) is designed to control the emission of hot particles from the engine and exhaust system, but the muffler and the exhaust gases are still hot.

Check the spark arrester exhaust system regularly to make sure it is maintained and working properly. Use the procedure in the Operation & Maintenance Manual for cleaning the spark arrester muffler (if equipped).

Welding And Grinding

Always clean the machine and attachment, disconnect the battery, and disconnect the wiring from the Bobcat controllers before welding. Cover rubber hoses, battery, and all other flammable parts. Keep a fire extinguisher near the machine when welding.

Have good ventilation when grinding or welding painted parts. Wear a dust mask when grinding painted parts. Toxic dust or gas can be produced.

Dust generated from repairing non-metallic parts such as hoods, fenders, or covers can be flammable or explosive. Repair such components in a well ventilated area away from open flames or sparks.

Fire Extinguishers



P200083

Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

PUBLICATIONS AND TRAINING RESOURCES

The following publications are also available for your Bobcat loader. You can order them from your Bobcat dealer. For the latest information on Bobcat products and the Bobcat Company, visit our website at Bobcat.com/training.



OPERATION & MAINTENANCE MANUAL

Complete instructions on the correct operation and the routine maintenance of your Bobcat loader.

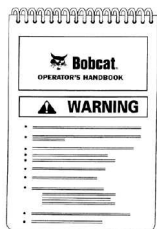
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SERVICE MANUAL

Complete maintenance instructions for your Bobcat loader.

7353044enUS



OPERATOR'S HANDBOOK

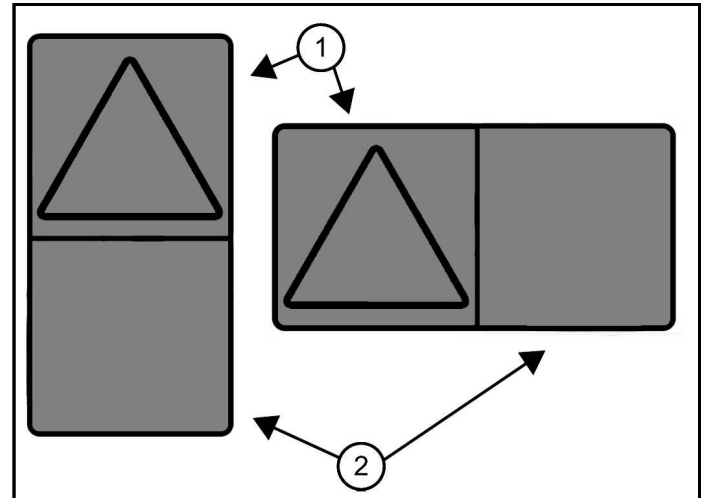
Gives basic operation instructions and safety warnings.

7399013enGB

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 familiarised with all safety signs installed on the machine / attachment.

Figure 10



C200466a

The format consists of the hazard panel(s) (Item 1) [Figure 10] and the avoidance panel(s) (Item 2) [Figure 10].

Hazard Panels: Depict a potential hazard enclosed in a safety alert triangle.

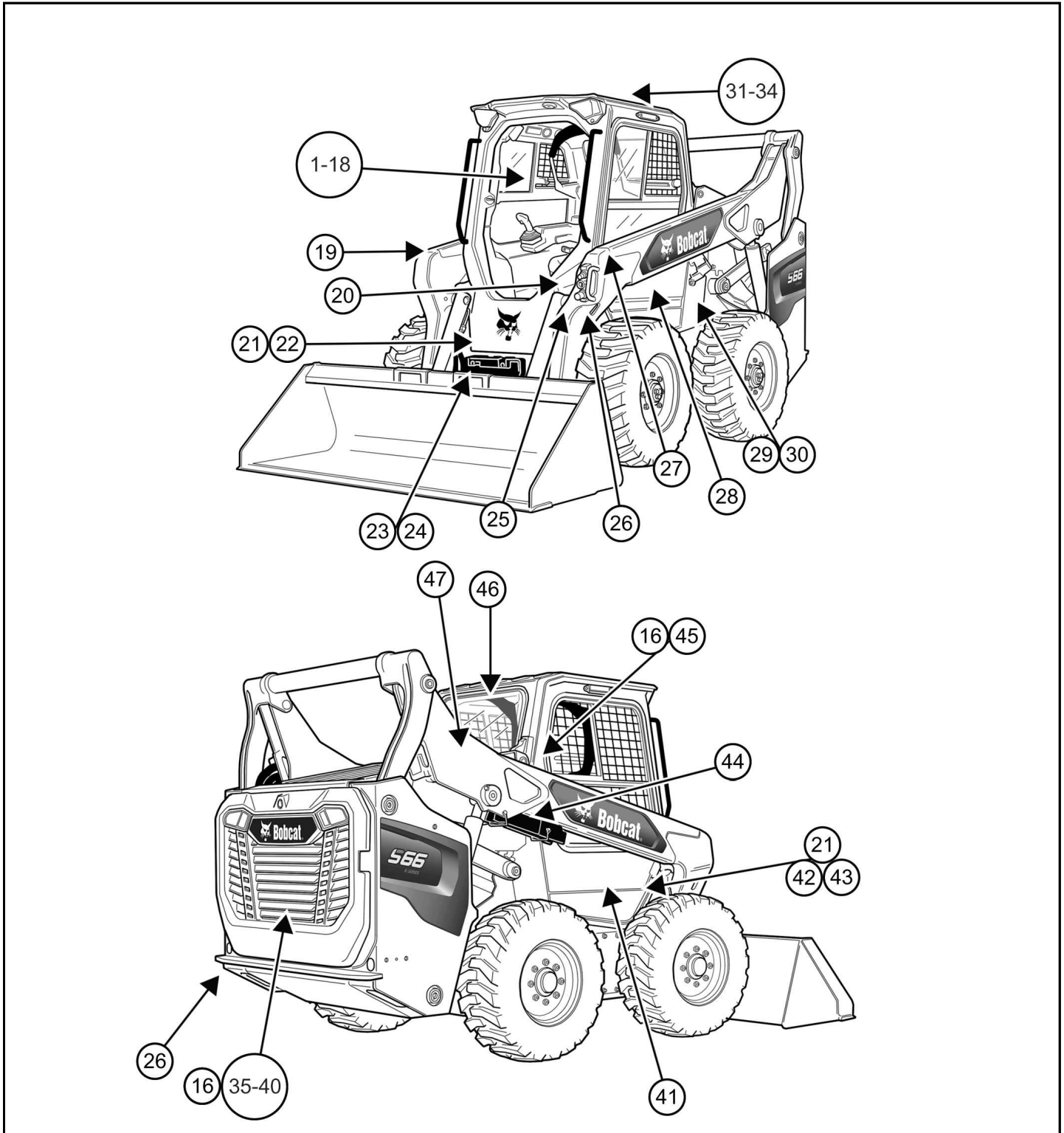
Avoidance Panels: Depict actions required to avoid the hazards.

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

MACHINE SIGNS (DECALS)

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

Figure 11



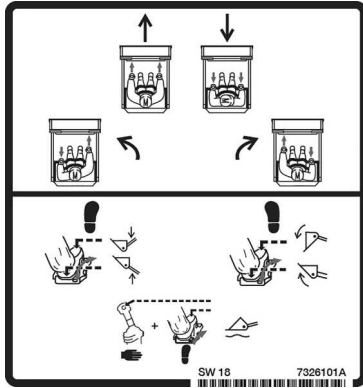
NA3839C

REF	DECAL	WARNING (IF APPLICABLE)
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Standard Controls (7326101)

This safety sign is located inside the operator cab on the lower left side of loaders equipped with standard controls.

1



To Leave The Loader (7341319)

This safety sign is located inside the operator cab on the lower left side of loaders equipped with standard controls.

2



! WARNING

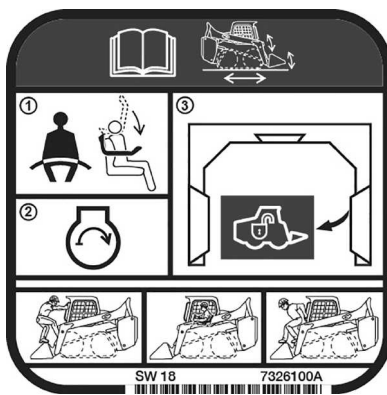
GENERAL HAZARD
Failure to follow instructions can cause serious injury or death.
To leave the loader safely:

1. Lower the lift arms and put attachment flat on the ground.
2. Stop the engine.
3. Engage the brake.
4. Raise seat bar.
5. Move pedals and hand controls until both lock.
6. Exit the loader. ◀

Standard Controls Operation (7326100)

This safety sign is located inside the operator cab on the lower left side of loaders equipped with standard controls.

3

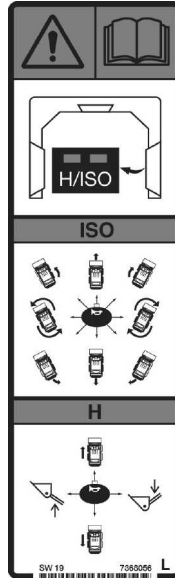


REF	DECAL	WARNING (IF APPLICABLE)
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SJC Controls (7368056)

This safety sign is located inside the operator cab on the left armrest of loaders equipped with SJC controls.

4


 **WARNING**

**UNINTENDED MACHINE
MOVEMENT HAZARD**
Accidental loader movement can
cause serious injury or death.

- Drive, lift arm and tilt functions operate on different joysticks in each control mode.
- Know and understand the selected control mode before operating.

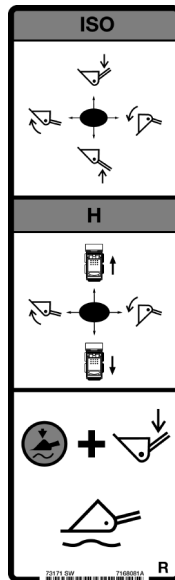
**READ AND UNDERSTAND THE
OPERATION & MAINTENANCE
MANUAL FOR MORE
INFORMATION. ◀**

W2785

SJC Controls (7168081)

This safety sign is located inside the operator cab on the right armrest of loaders equipped with SJC controls.

5



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