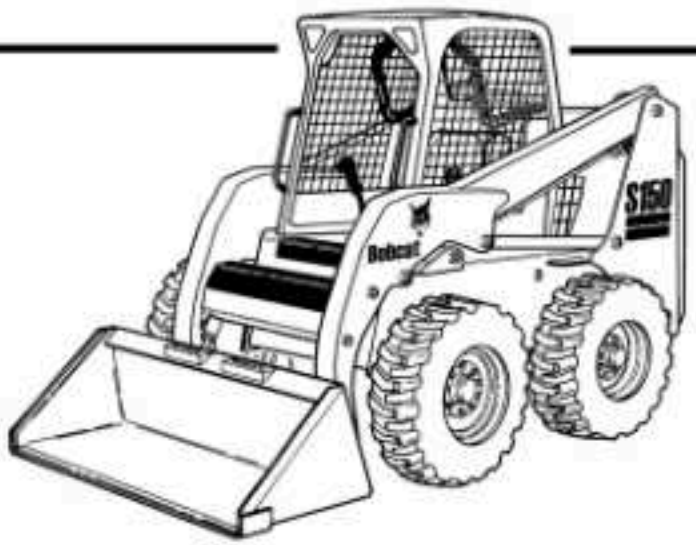
S150

Bobcat®

Operation & Maintenance Manual

S/N 526911001 & Above
S/N 526811001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS)

6902684 (6-05) Revised (12-06) (8)

Ingersoll Rand
Compact Vehicle Technologies

Printed in U.S.A.

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REFERENCE INFORMATION

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

Loader Serial Number _____

Engine Serial Number _____

_____

NOTES:

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

Bobcat Company
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Gwinner, ND 58040-0128

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FOREWORD

This Operation & Maintenance Manual was written to give the owner/operator instructions on the safe operation and maintenance of the Bobcat Loader. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR Bobcat Loader. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your loader.

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED V

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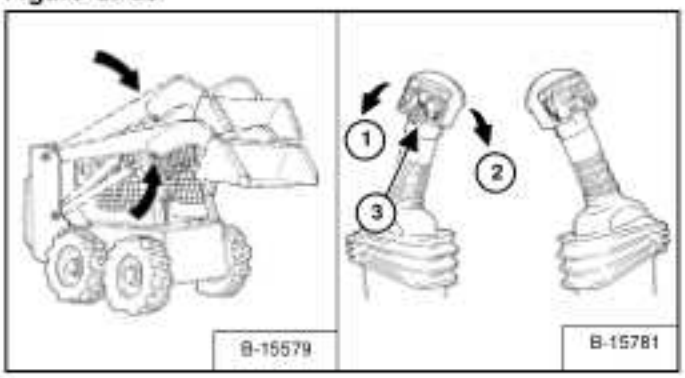
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Advanced Control System (ACS) in HAND Control Mode

Figure OI-26



Lift Arm Operation - **(Left Hand Lever)**

Move the lever outward (Item 1) **[Figure OI-26]** to raise the lift arms.

Move the lever inward (Item 2) **[Figure OI-26]** to lower the lift arms.

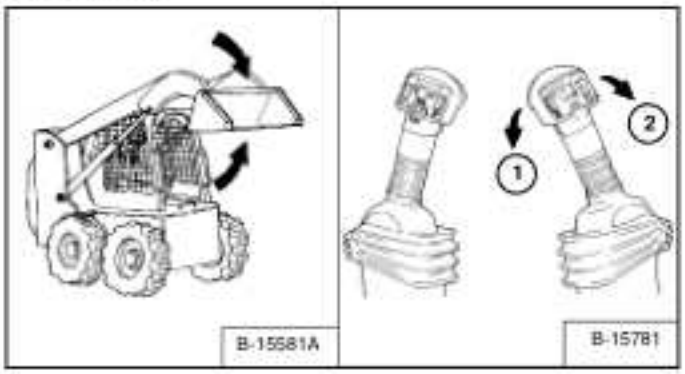
Lift Arm Float Position - **(Left Hand Lever)**

Press and hold the Float Button (Item 3) **[Figure OI-26]** while the lever is in neutral. Move the lever to lift arm down position (Item 2) **[Figure OI-26]**, then release the button.

Press Float Button again or move the lever to lift arm up position (Item 3) **[Figure OI-26]**.

Use the float position of the lift arms to level loose material while driving backward.

Figure OI-27



Tilt Operation - **(Right Hand Lever)**

Move the lever inward (Item 1) **[Figure OI-27]** to tilt the bucket backward.

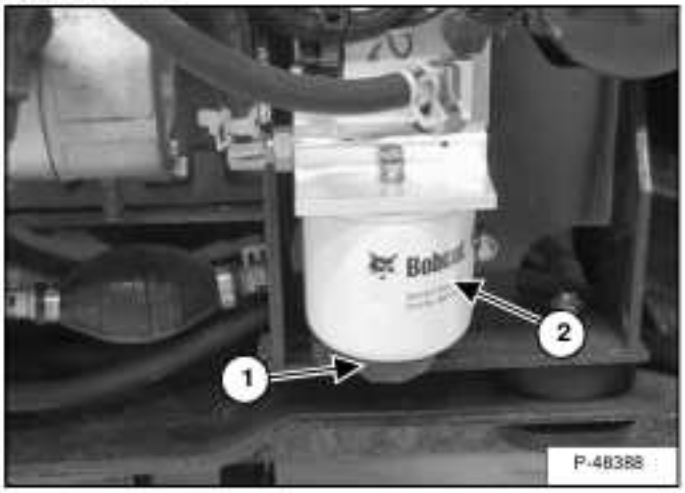
Move the lever outward (Item 2) **[Figure OI-27]** to tilt the bucket forward.

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Fuel Filter

For the service interval for removing water from, or replacing the fuel filter. (See SERVICE SCHEDULE on Page PM-7.)

Figure PM-30



Loosen the drain (Item 1) **[Figure PM-30]** at the bottom of the filter element to remove water from the filter.

Remove the filter element (Item 2) **[Figure PM-30]**.

Clean the area around the filter housing. Put clean oil on the seal of the new filter element. Install the fuel filter, and hand tighten.

Remove air from the fuel system. (See Removing Air From The Fuel System on Page PM-20.)

⚠ WARNING

Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire which can result in injury or death.

W-2103-1285

Removing Air From The Fuel System

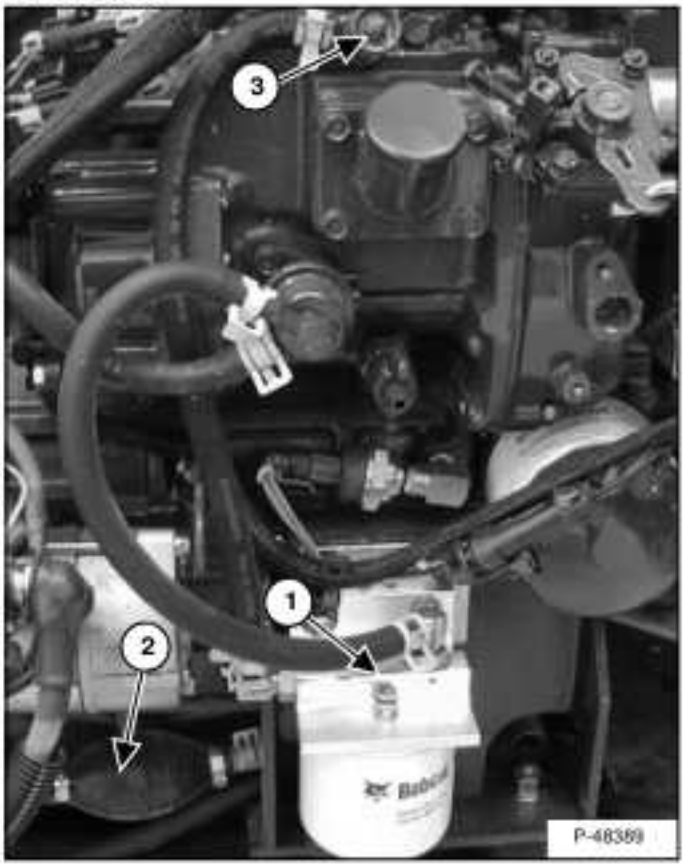
After replacing the filter element or when the fuel tank has run out of fuel, the air must be removed from the fuel system before starting the engine.

⚠ WARNING

Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention from a physician familiar with this injury.

W-2072-0496

Figure PM-31



Open the vent (Item 1) **[Figure PM-31]** on the fuel filter housing.

Squeeze the hand pump (priming bulb) (Item 2) **[Figure PM-31]** until fuel flows from the vent with no air bubbles.

Close the vent (Item 1) **[Figure PM-31]**.

It may be necessary to open the vent (Item 3) **[Figure PM-31]** briefly while engine is running. Close the vent when the engine runs smoothly.

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LOADER SPECIFICATIONS (S150) (CONT'D)

Performance

Rated Operating Capacity (SAE)	1500 lb. (680 kg)
Tipping Load (SAE Rating)	3000 lb. (1361 kg)
Operating Weight	5662 lb. (2568 kg)
SAE Breakout Force - Lift	4350 lbf. (5898 N•m)
SAE Breakout Force - Tilt	3600 lbf. (4881 N•m)
Axle Torque	4900 ft.lb. (6644 N•m)
Travel Speed	0 - 7.0 mph (11,2 km/hr.)

Controls

Vehicle Steering	Direction and speed controlled by two hand levers *or* optional joysticks.
Loader Hydraulics - Lift and Tilt - Front Auxiliary (Std.) - Rear Auxiliary (Option)	 Controlled by separate foot pedals or optional Advanced Control System (ACS) *or* Selectable Joystick Control (SJC) Controlled by electrical switch on Right Hand steering lever Controlled by electrical switch on Left Hand steering lever
Auxiliary Pressure Release	Pressure relieved through front quick couplers. Push couplers in, hold for 5 seconds.
Engine	Hand lever speed control; key-type starter switch (*or* optional keyless start) and shutdown
Service Brake	Two independent hydrostatic systems controlled by two hand operated steering levers
Secondary Brake	One of the hydrostatic transmissions
Parking Brake (Std.)	Mechanical disc, hand operated rocker switch on instrument panel

Engine

Make/Model	Kubota V2203-M-DI
Fuel/Cooling	Diesel/Liquid
Horsepower, Net	46.0 HP (34,3 kW)
Maximum Governed RPM	2800RPM
Torque, Net	107 lbf.-ft. (145 N•m) @ 1800 RPM
Number of Cylinders	4
Displacement	134.0 cu. in. (2,2 L)
Bore/Stroke	3.27/3.64 (83,1 mm / 92,4 mm)
Lubrication	Pressure System with Filter
Crankcase Ventilation	Open
Air Cleaner	Dry replaceable paper cartridge with safety element
Ignition	Diesel-Compression
Engine Coolant	Propylene Glycol / Water Mixture
Starting Aid	Glow Plug automatically activated by Std. or Deluxe Instrument Panel

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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

Operator must have instructions before running the machine. Untrained operators can cause injury or death.

W-2001-1285

IMPORTANT

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

I-2019-0284

WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285

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

Check all of the items on the Bobcat Service Schedule Decal under the 8-10 hour column 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, Safety Manual and machine signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. Regulations may apply to local driving requirements or use of a Slow Moving Vehicle (SMV) emblem. 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.
- Operator Training Courses are available from your Bobcat dealer in English and Spanish. They provide information for safe and efficient equipment operation. Safety videos are also available.
- Service Safety Training Courses are available from your Bobcat dealer. They provide information for safe and correct service procedures.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the Rated Operating Capacity (R.O.C.) of the machine. Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of the 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. Call local utilities or the TOLL FREE phone number found in the **Before Operation** Section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, hearing protection or Special Applications Kits are required for some work. See your Bobcat dealer about Bobcat Safety Equipment for your model.

SI SSL-0206

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