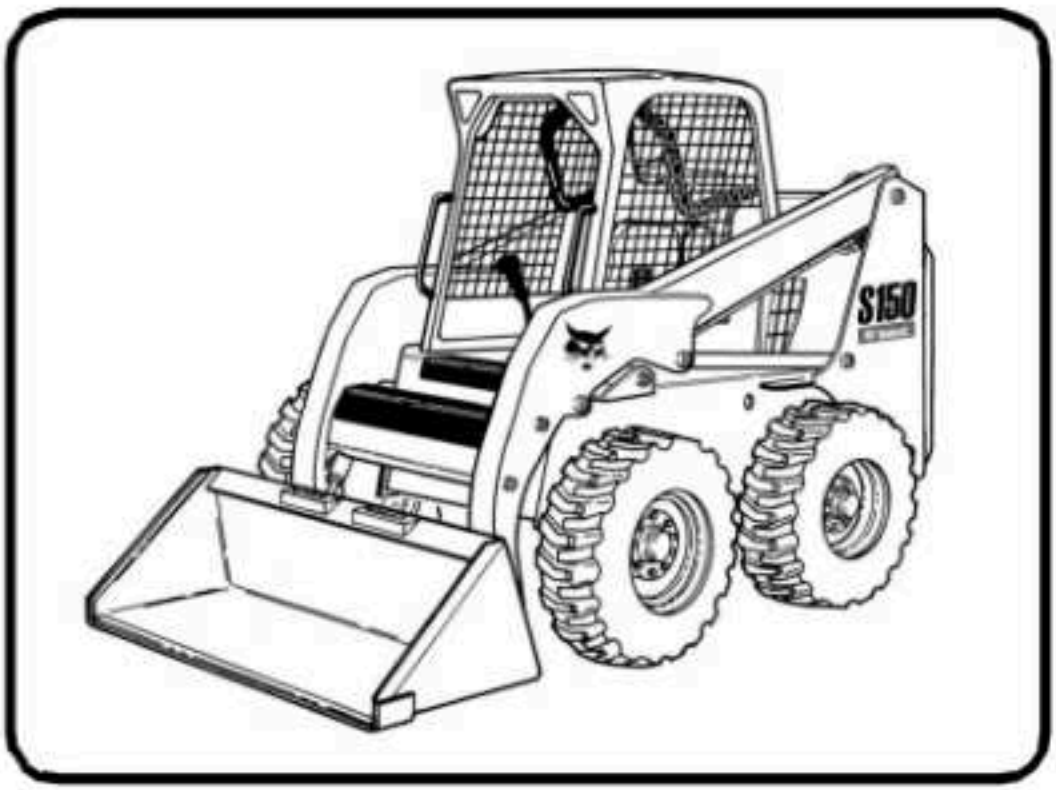
Bobcat®

Operation & Maintenance Manual
S150 Skid-Steer Loader

S/N A3L120001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)

6986979 (3-10) Revised (11-10) (10)

Printed in U.S.A.

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CONTENTS

FOREWORD III

SAFETY & TRAINING RESOURCES XI

OPERATING INSTRUCTIONS OI-1

PREVENTIVE MAINTENANCE PM-1

SYSTEM SETUP & ANALYSIS SA-1

MACHINE SIGN TRANSLATIONS MST-1

SPECIFICATIONS SPEC-1

WARRANTY WARRANTY-1

ALPHABETICAL INDEX INDEX-1

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

Doosan Benelux SA
Drève Richelle 167
B-1410 Waterloo
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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 IS0 9001 CERTIFIED V

DELIVERY REPORT VI

FEATURES, ACCESSORIES AND ATTACHMENTS VIII
- Attachments IX
- Buckets Available IX
- Options And Accessories VIII
- Special Applications Kit X
- Special Applications Kit Inspection And Maintenance X
- Standard Items VIII

LOADER IDENTIFICATION VII

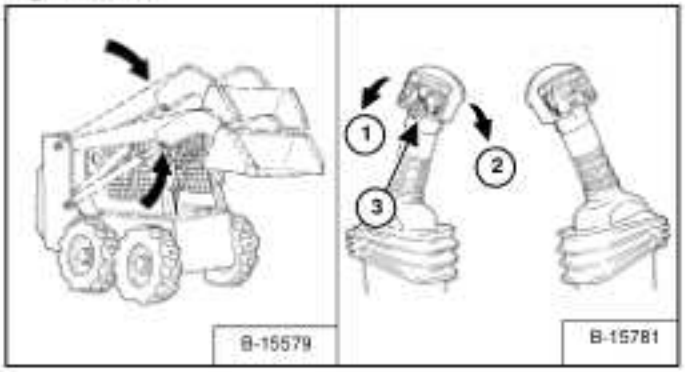
REGULAR MAINTENANCE ITEMS V

SERIAL NUMBER LOCATIONS VI
- Engine Serial Number VI
- Loader Serial Number VI

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Advanced Control System (ACS) In HAND Control Mode

Figure OI-51



Lift Arm Operation - (Left Hand Lever)

Move the lever outward (Item 1) **[Figure OI-51]** to raise the lift arms.

Move the lever inward (Item 2) **[Figure OI-51]** to lower the lift arms.

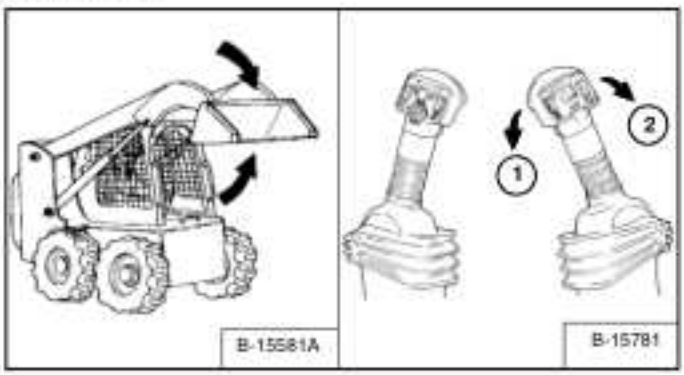
Lift Arm Float Position - (Left Hand Lever)

Press and hold the Float button (Item 3) **[Figure OI-51]** while the lever is in neutral. Move the lever to lift arm down position (Item 2) **[Figure OI-51]**, then release the button.

Press Float button (Item 3) **[Figure OI-51]** again or move the lever to lift arm up position to disengage.

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

Figure OI-52



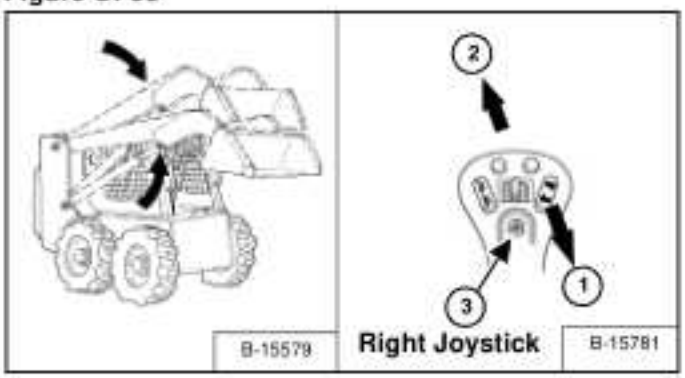
Tilt Operation - (Right Hand Lever)

Move the lever inward (Item 1) **[Figure OI-52]** to tilt the bucket backward.

Move the lever outward (Item 2) **[Figure OI-52]** to tilt the bucket forward.

Selectable Joystick Controls (SJC) In 'ISO' Control Pattern

Figure OI-53



Lift Arm Operation - (Right Hand Joystick)

Move the joystick backward (Item 1) **[Figure OI-53]** to raise the lift arms.

Move the joystick forward (Item 2) **[Figure OI-53]** to lower the lift arms.

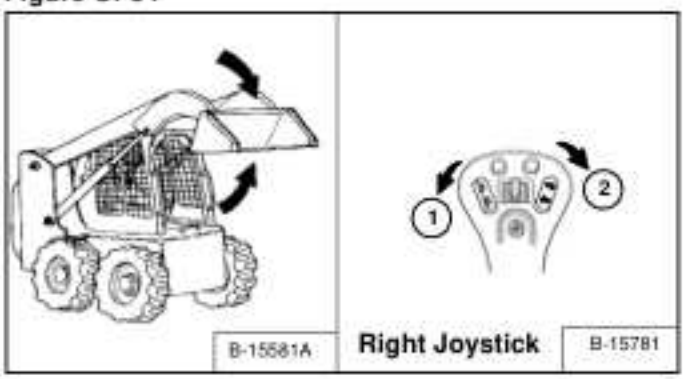
Lift Arm Float Position - (Right Hand Joystick)

Press and hold the Float button (Item 3) **[Figure OI-53]** while the joystick is in neutral. Move the joystick to lift arm down position (Item 2) **[Figure OI-53]**, then release the button.

Press Float button (Item 3) again or move the joystick to lift arm up position (Item 1) **[Figure OI-53]** to disengage.

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

Figure OI-54



Tilt Operation - (Right Hand Joystick)

Move the joystick inward (Item 1) **[Figure OI-54]** to tilt the bucket backward.

Move the joystick outward (Item 2) **[Figure OI-54]** to tilt the bucket forward.

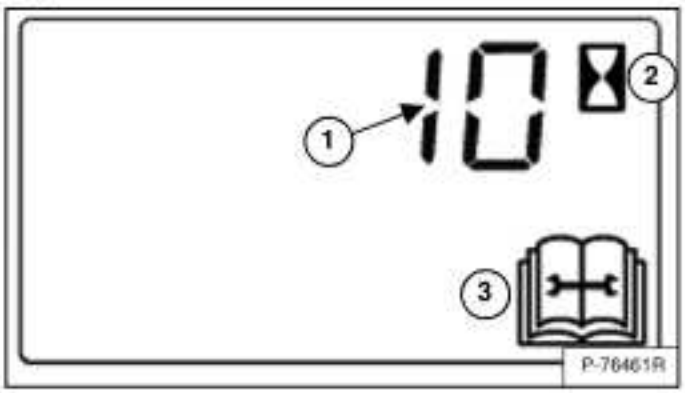
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MAINTENANCE CLOCK

Description

The Maintenance Clock alerts the operator when the next service interval is due. *EXAMPLE:* The Maintenance Clock can be set to a 250 hour interval as a reminder for the next 250 hour planned maintenance.

Figure SA-12



During machine operation, a two beep alarm will sound when there are less than 10 hours until the next planned maintenance.

The remaining hours before maintenance is required will appear in the data display (Item 1) for five seconds while the service icon (Item 3) and hourmeter icon (Item 2) **[Figure SA-12]** flash.

NOTE: The display will show negative numbers after counting down to zero.

The display will then revert back to the previous display and will appear for five seconds every time the machine is started until the maintenance clock is reset.

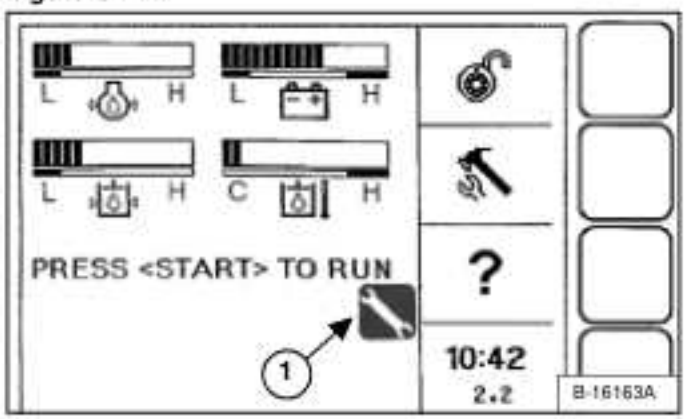
Figure SA-13



The Deluxe Instrumentation Panel, if equipped, will display a message (Item 1) **[Figure SA-13]** alerting the operator to service the machine.

This message will remain for 10 seconds before reverting back to the previous screen and will appear for 10 seconds every time the machine is started until the maintenance clock is reset.

Figure SA-14



The Deluxe Instrumentation Panel, if equipped, will display a wrench icon (Item 1) **[Figure SA-14]** alerting the operator to service the machine. This icon will remain on the display until the maintenance clock is reset.

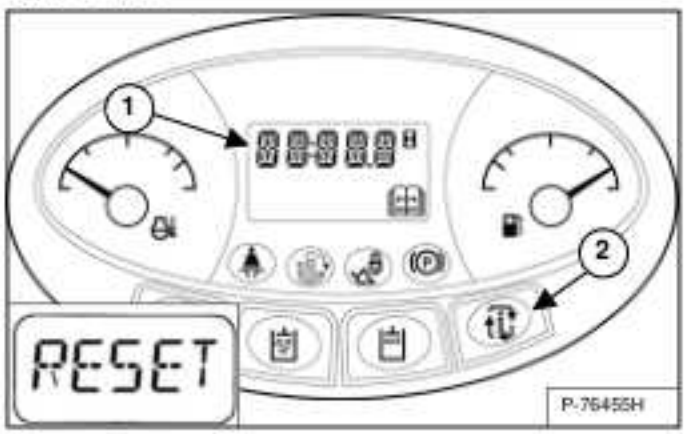
NOTE: Loaders equipped with a Standard Key Panel or Keyless Start Panel will not display the BobCARE^{SM} PM message or wrench icon on the right panel.

Setup

See your Bobcat dealer about installation of this feature.

Reset

Figure SA-15



Press the information button (Item 2) until the display screen (Item 1) **[Figure SA-15]** shows the maintenance clock.

Press and hold the information button (Item 2) for seven seconds until **[RESET]** (Inset) appears in the display screen (Item 1) **[Figure SA-15]**.

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(S150) LOADER SPECIFICATIONS (CONT'D)

Performance

Rated Operating Capacity (ISO)	680 kg (1500 lb)
with 200 Pound Frame Mounted Counterweight Kit	748 kg (1650 lb)
Tipping Load (ISO Rating)	1407 kg (3101 lb)
Operating Weight	2692 kg (5935 lb)
SAE Breakout Force - Lift	1451 kg (3200 lb)
SAE Breakout Force - Tilt	1383 kg (3050 lb)
Push Force	1792 kg (3950 lb)
Travel Speed - Single Speed Loader - Two-Speed Loader (Opt.) Low/High	 11,8 km/h (7.3 mph) 12,1 km/h (7.5 mph) / 17,9 km/h (11.1 mph)

Engine

Make / Model	Kubota / V2403-M-DI-E3B Interim Tier IV
Fuel / Cooling	Diesel / Liquid
Horsepower (SAE Net)	34,4 kW (46.1 hp) @ 2700 rpm
Torque (SAE Net)	148,6 N•m (109.6 ft-lb) @ 1600 rpm
Number of Cylinders	4
Displacement	2,433 L (148.5 in^3)
Bore / Stroke	87 mm / 102 mm (3.425 in / 4.03 in)
Lubrication	Gear Pump Pressure system with Filter
Crankcase Ventilation	Closed Breathing
Air Cleaner	Dry replaceable paper cartridge with separate safety element
Ignition	Diesel Compression
Air Induction	Naturally Aspirated
Starting Aid	Glow Plugs - Automatically activated as needed in RUN position.
Low Idle	1075 - 1225 rpm
High Idle	2760 - 2900 rpm

Drive System

Main Drive	Hydrostatic 4 wheel drive
Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors.
Final Drive	Pre-stressed #80 HSOC endless roller chain (no master link) and sprockets in sealed chaincase with oil lubrication (Chains do not require periodic adjustments) Two chains per side with no idler sprocket
Total Engine to Wheel Reduction	33:1
Axle Size	50,8 mm (2.00 in), Heat treated
Wheel Bolts	Eight 9/16 in. Wheel bolts fixed to axle hubs

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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

DANGER

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

D-1002-1107

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

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 (ROC) 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, respiratory equipment, hearing protection or Special Applications Kits are required for some work. See your Bobcat dealer about Bobcat Safety Equipment for your model.

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