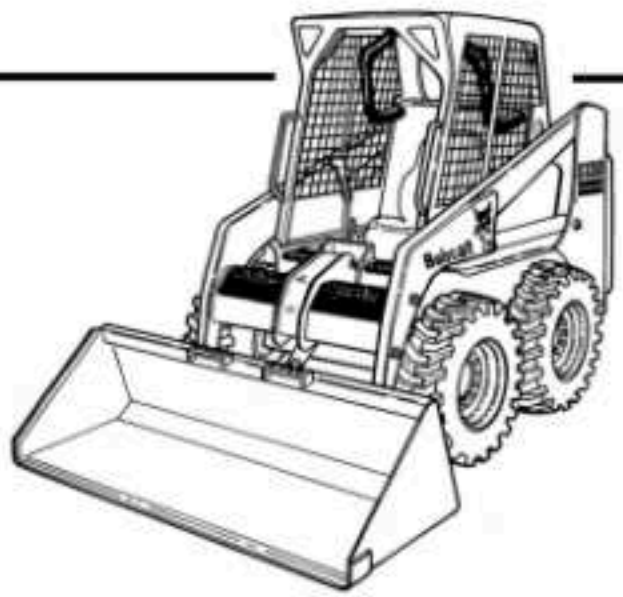
S130

Bobcat®

Operation & Maintenance Manual

S/N 524611001 & Above
S/N 524711001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS)

6902679 (8-04) Revised (12-06) (E)

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
P.O. Box 128
Gwinner, ND 58040-0128

Bobcat Company Europe
Dréve Richelle 167
B-1410 WATERLOO
Belgium

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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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- Engine Serial Number VI
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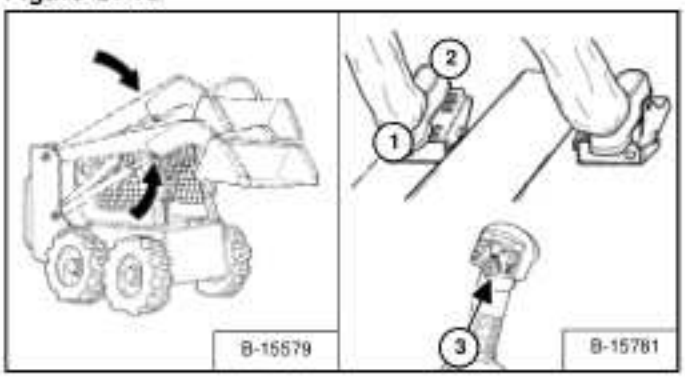
HYDRAULIC CONTROLS

Operation

Two foot pedals (or optional hand controls) control the hydraulic cylinders for the lift and tilt functions.

Put your feet on the pedals (or footrests) and KEEP THEM THERE any time you operate the loader.

Figure OI-16



Standard Controls (Also ACS in Foot Pedal Mode)

Lift Arm Operation - **(Left Pedal)**

Push the heel (Item 1) **[Figure OI-16]** of the pedal to raise the lift arms.

Push the toe (Item 2) **[Figure OI-16]** of the pedal to lower the lift arms.

Lift Arm Float Position - **(Left Pedal)**

Push the toe (Item 2) **[Figure OI-16]** of the pedal all the way forward until it locks into the float position.

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

Raise the lift arms to disengage the float position.

Lift Arm Float Position (With ACS) - **(Left Pedal)**

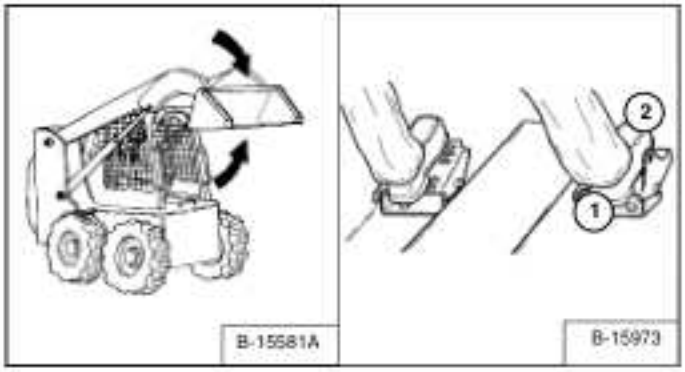
Press and hold the Float button (Item 3) **[Figure OI-16]**.

Push the toe (Item 2) **[Figure OI-16]** of the pedal forward to lower the lift arms. Then release the float button.

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

Raise the lift arms to disengage the float position.

Figure OI-17



Tilt Operation - **(Right Pedal)**

Push the heel (Item 1) **[Figure OI-17]** of the pedal to tilt the bucket backward.

Push the toe (Item 2) **[Figure OI-17]** of the pedal to tilt the bucket forward.

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LUBRICATING THE BOBCAT LOADER

Lubrication Locations

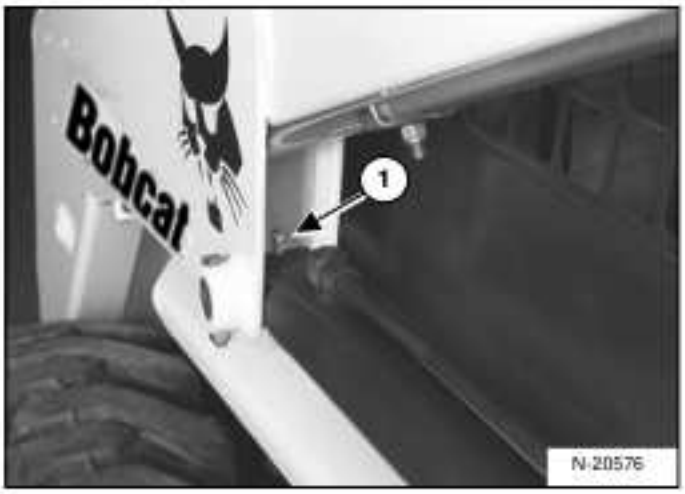
Lubricate the loader as specified for the best performance of the loader (See SERVICE SCHEDULE on Page PM-7.)

Record the operating hours each time you lubricate the Bobcat Loader.

Always use a good quality lithium based multi-purpose grease when you lubricate the loader. Apply the lubricant until extra grease shows.

Lubricate the following:

Figure PM-61



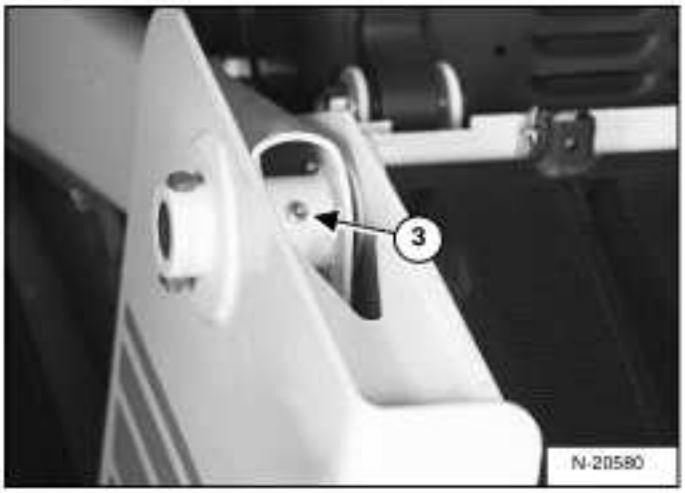
1. Rod End Lift Cylinder (Both Sides) **[Figure PM-61]**.

Figure PM-62



2. Base End Lift Cylinder (Both Sides) **[Figure PM-62]**.

Figure PM-63



3. Lift Arm Pivot Pin (Both Sides) **[Figure PM-63]**.

Figure PM-64



4. Base End Tilt Cylinder (Both Sides) **[Figure PM-64]**.

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LOADER SPECIFICATIONS (S130) (CONT'D)

Performance

Rated Operating Capacity (SAE)	1300 lb. (612 kg)
Tipping Load (SAE Rating)	2600 lb. (1179 kg)
Operating Weight	4740 lb. (2150 kg)
SAE Breakout Force - Lift - Tilt	2750 lb. (12233 N) 2800 lb. (12455 N)
Axel Torque	4700 ft.-lb. (6373 N•m)
Travel Speed	0-6.6 mph (10.6 km/hr.)

Controls

Vehicle Steering	Direction and speed controlled by two hand levers.
Loader Hydraulics Lift and Tilt Front Auxiliary (Std.) Rear Auxiliary (Option)	 Controlled by separate foot pedals or optional hand controls. Controlled by electrical switch on RH steering lever. Controlled by electrical switch on LH steering lever.
Engine	Hand lever throttle: Key-type starter switch and shutdown.
Starting Aid	Glow Plug-Automatically activated by Std. or Deluxe instrumentation.
Service Brake	Two independent hydrostatic systems controlled by two hand operated steering levers.
Secondary Brake	One of the hydrostatic transmissions.
Parking Brake	(Earlier), foot operated pedal. (Later) Push Button.

Engine

Make/Model	KUBOTA V2203-M-DI
Fuel/Cooling	Diesel/Liquid
Horsepower @ 2650 RPM (SAE)	**Net:** 43.5 HP (32.4 kW) **Gross:** 49.0 HP (36.5 kW)
Torque @ 1600 RPM (SAE)	**Net:** 107 ft.-lb. (145 N•m) **Gross:** 114 ft.-lb. (155 N•m)
Number of Cylinders	Four
Displacement	134.0 cu. in. (2195 cu. cm.)
Bore/Stroke	3.425/3.638 (87/92.4)
Lubrication	Gear Pump Pressure System W/Filter
Crankcase Ventilation	Open
Air Cleaner	Dry replaceable cartridge w/seperate safety element
Ignition	Diesel-Compression
Maximum Governed RPM	2650 RPM
Low Idle	1125-1175 RPM
High Idle	2710-2850 RPM

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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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