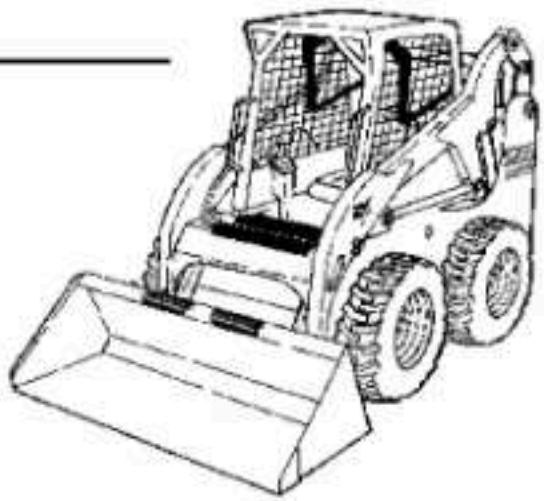
EN

S205

Bobcat®

Operation & Maintenance Manual

S/N 530611001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS)

6904136-EN (09-06)

An Ingersoll-Rand Company

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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:

_____

CE

Bobcat Europe
Drève 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 MACHINE. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED V

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HYDRAULIC CONTROLS

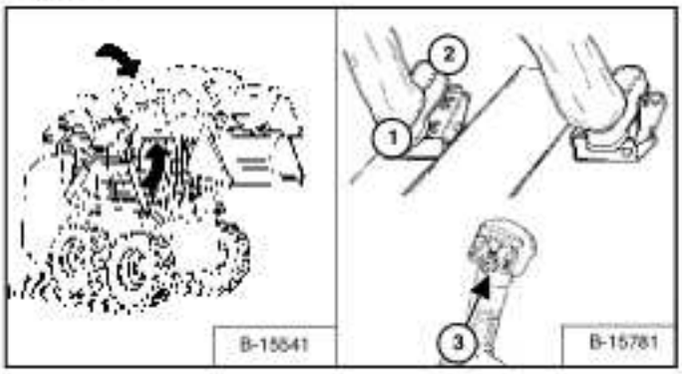
Description

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.

Standard Controls (Also ACS In FOOT Pedal Mode)

Figure 30



Lift Arm Operation - (Left Pedal)

Push the heel (1) **[Figure 30]** of the pedal to raise the lift arms.

Push the toe (2) **[Figure 30]** of the pedal to lower the lift arms.

Lift Arm Float Position Operation - (Left Pedal)

Push the toe (2) **[Figure 30]** 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)

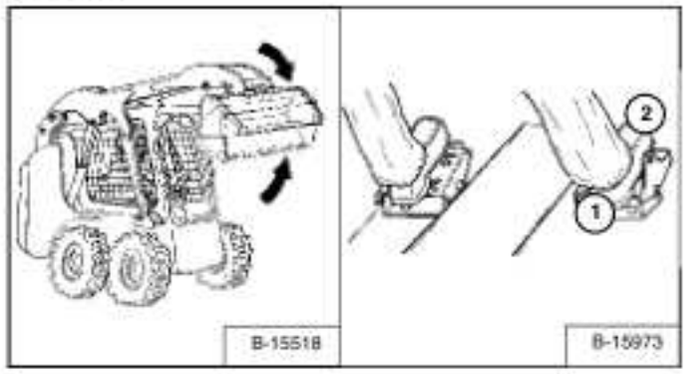
Press and hold the Float button (3) **[Figure 30]**.

Push the toe (2) **[Figure 30]** 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 31



Tilt Operation - (Right Pedal)

Push the heel (1) **[Figure 31]** of the pedal to tilt the bucket backward.

Push the toe (2) **[Figure 31]** of the pedal to tilt the bucket forward.

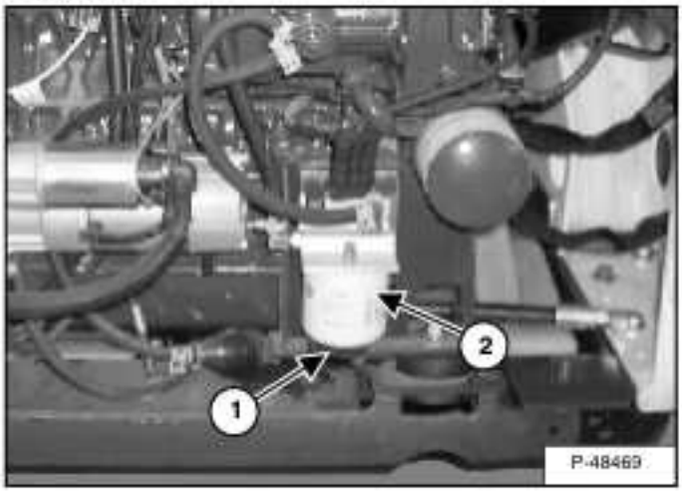
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Fuel Filter

See your SERVICE SCHEDULE for the service interval for removing water from, or replacing the fuel filter. (See SERVICE SCHEDULE on Page 65.)

Removing Water

Figure 143



Loosen the drain (1) **[Figure 143]** at the bottom of the filter element to remove water from the filter.

Replacing Element

Remove the filter element (2) **[Figure 143]**.

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 the air from the fuel system. (See Below.)

Removing Air From The Fuel System

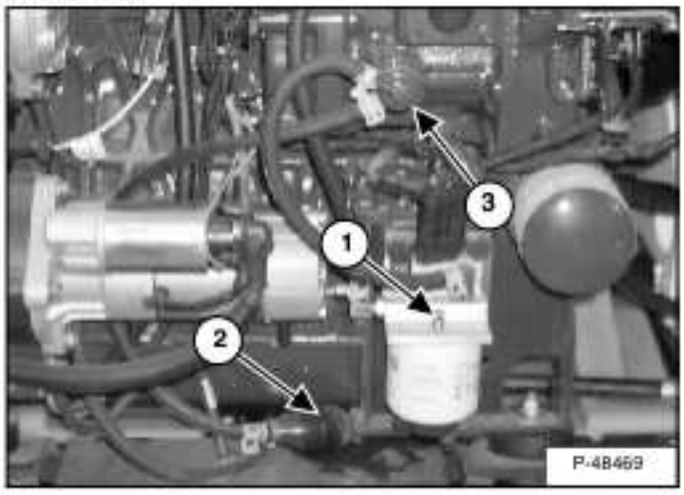
After replacing the filter element or when the fuel tank has run out of fuel, the air must be removed from the fuel system before starting the engine.

⚠ 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 144



Open the vent (1) **[Figure 144]** on the fuel filter housing.

Squeeze the hand pump (priming bulb) (2) **[Figure 144]** until fuel flows from the vent with no air bubbles.

Close the vent (1) **[Figure 144]** on the fuel filter housing.

Open the vent (3) **[Figure 144]** on the fuel injection pump.

Squeeze the hand pump (priming bulb) (2) **[Figure 144]** until the pump feels solid.

Tighten the vent plug (3) **[Figure 144]**.

Start the engine.

It may be necessary to open the vent plug (3) **[Figure 144]** briefly while the engine is running. Close the vent when the engine runs smoothly.

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(S205) LOADER SPECIFICATIONS (CONT'D)

Machine Rating

Lift breakout force	1690 daN
Tilt breakout force	1701 daN
Rated operating capacity	930 kg
Tipping load	2019 kg
Axle torque	5423 Nm

Function Time

Raise lift arms	3,50 s
Lower lift arms	2,30 s
Bucket rollback	1,90 s
Bucket dump	2,50 s

Weights

Operating weight	3023 kg
Shipping weight	2658 kg

Engine

Make / Model	Kubota / V2403-M-DI-TE2B-BC-I
Fuel	Diesel
Cooling	Liquid
Power at 2700 RPM	45,5 kW
Rated speed (EEC 80/1269, ISO 9249)	2700 RPM
Low idle speed	1195-1245 RPM
High idle speed	2860-3000 RPM
Torque at 1475 RPM (SAE JI 995 Gross)	218 Nm
Number of cylinders	4
Displacement	2433 cm^3
Bore	87,1 mm
Stroke	102,3 mm
Lubrication	Gear pump pressure
Crankcase ventilation	Open
Air filter	Dry replaceable cartridge with separate safety element
Ignition	Diesel-compression
Starting aid	Glow plugs

Electrical

Alternator	Belt driven - 90 A - open
Battery	12 V - 600 cold cranking A at -18°C - 115 min reserve capacity
Starter	12 V - gear reduction type - 2,7 kW

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