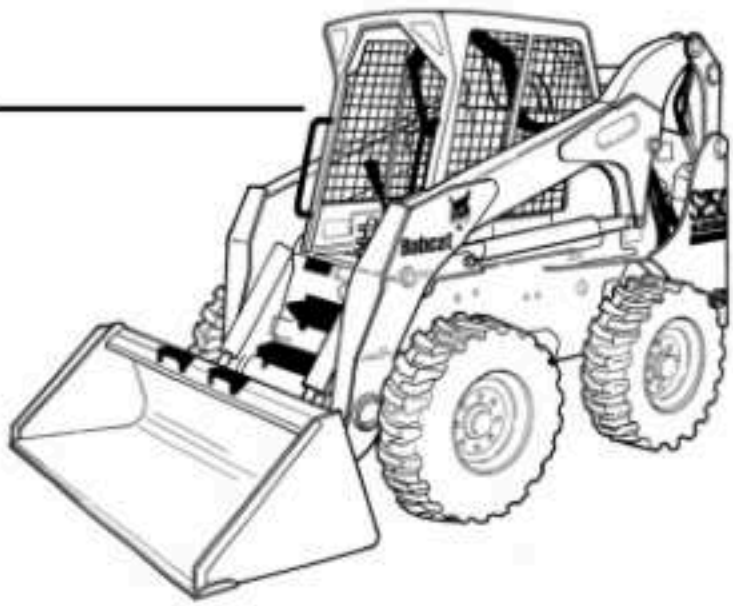
S250 TURBO

S250 TURBO HIGH FLOW

Bobcat®

Operation & Maintenance Manual

S/N 520711001 & Above
S/N 520811001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS)

6901751 (3-02) Revised (12-06) (2)

Ingersoll Rand
Compact Vehicle Technologies

Printed in U.S.A.

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CALIFORNIA
PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

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 LOADER 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.

BOBCAT COMANY IS IS0 9001 CERTIFIED V

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HYDRAULIC CONTROLS

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

⚠ WARNING

Keep both feet on pedals or footrests while operating machine. Failure to do so can cause serious injury.

W-2359-1099

Figure OI-18

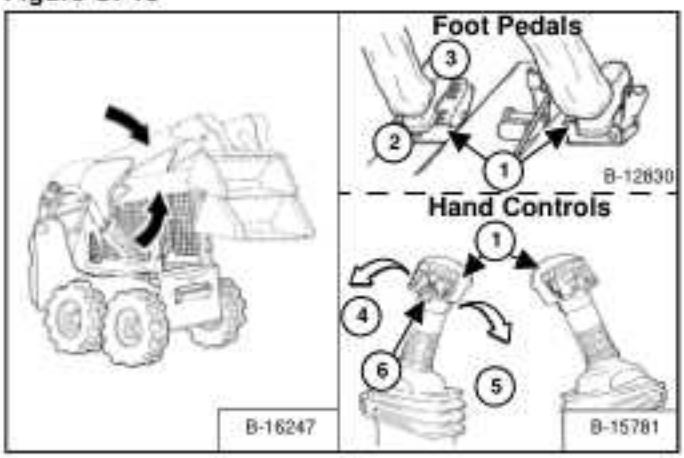
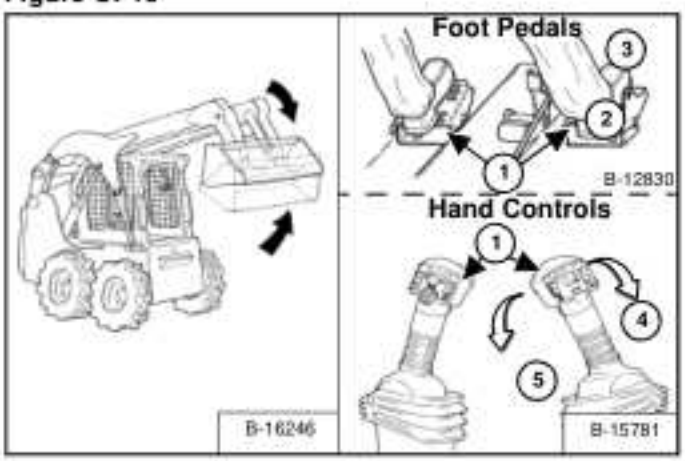


Figure OI-19



Two foot pedals (or hand controls) (Item 1) **[Figure OI-18]** and **[Figure OI-19]** control the hydraulic cylinders for the lift and tilt functions.

Foot Pedals

Lift Arm Operation **[Figure OI-18]**

The left pedal controls the lift arms.

Push the bottom (heel) (Item 2) **[Figure OI-18]** of the pedal to raise the lift arms.

Push the top (toe) (Item 3) **[Figure OI-18]** of the pedal to lower the lift arms.

Lift Arm Float Position **[Figure OI-18]**

Push the top (toe) (Item 2) **[Figure OI-18]** 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.

Push the bottom of the left pedal to unlock from the *float* position.

Tilt Operation **[Figure OI-19]**

The right pedal controls the bucket.

Push the bottom (heel) (Item 2) **[Figure OI-19]** of the pedal to tilt the bucket backward.

Push the top (toe) (Item 3) **[Figure OI-19]** of the pedal to tilt the bucket forward.

Hand Controls (If Equipped)

Lift Arm Operation **[Figure OI-18]**

The left hand lever controls the lift arms.

Move the left hand lever away from the operator (Item 4) **[Figure OI-18]** to raise the lift arms.

Move the left hand lever toward the operator (Item 5) **[Figure OI-18]** to lower the lift arms.

Lift Arm Float Position **[Figure OI-18]**

To Engage: Press and hold the Float button (Item 6) **[Figure OI-18]** while the lever is in neutral. Move the lever to the lift arm down position (Item 5) **[Figure OI-18]**, then release the button.

To Disengage: Press Float Button again or move the lever to the lift arm up position (Item 4) **[Figure OI-18]**.

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

Move the left hand lever upward to unlock from the float position

Tilt Operation **[Figure OI-19]**

The right hand lever controls the bucket.

Move the right hand lever toward the operator (Item 5) **[Figure OI-19]** to tilt the bucket backward.

Move the right hand lever away from the operator (Item 4) **[Figure OI-19]** to tilt the bucket forward.

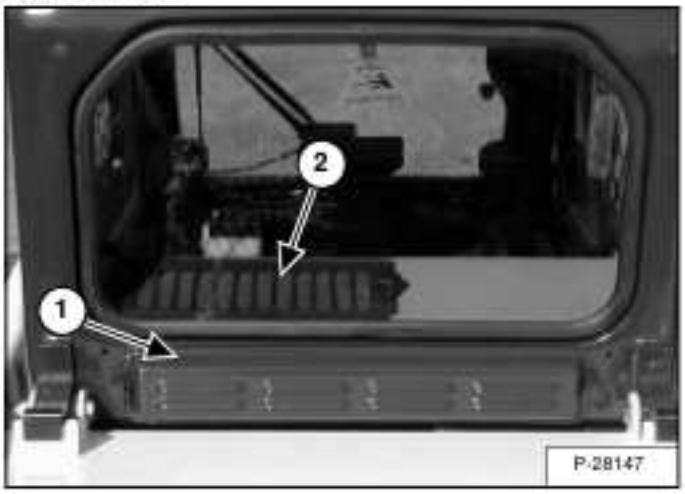
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Cleaning And Maintenance

The heating system requires regular inspection and maintenance. For service intervals (See SERVICE SCHEDULE on Page PM-5.)

Filters

Figure PM-20



The *Fresh Air Filter* is located below the rear window of the cab (Item 1) **[Figure PM-20]**.

Remove the knobs and remove the filter housing.

Shake the filter or use low air pressure to remove dirt.

Reinstall the filter and housing.

The *Recirculation Filter* is located in front of the rear window inside the cab (Item 2) **[Figure PM-20]**.

Remove the clamping knobs, grill and filter.

Clean the filter with water and mild detergent. Reinstall the filter

Evaporator

Figure PM-21



Raise the cab and remove the evaporator cover (Item 1) **[Figure PM-21]**.

Use low pressure water or air to remove debris from the evaporator fins.

Install the cover.

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SKID STEER LOADER SPECIFICATIONS (CONT'D)

Performance

Rated Operating Capacity (SAE)	2500 lb. (1134 kg)
Rated Operating Capacity (SAE With Counterweight Option)	2500 lb. (1134 kg)
Tipping Load (SAE)	5000 lb. (2268 kg)
Operating Weight (SAE)	7674 lb. (3481 kg)
Travel Speed - Single Speed Loader - Two-Speed Loader (Opt.) Low/High	 7.2 mph (11,6 km/hr.) 7.2 mph (11,6 km/hr.) / 12.5 mph (20,1 km/hr.)
SAE Breakout Force - Lift	6840 lbf. (3103 kg)
SAE Breakout Force - Tilt	6300 lbf. (2858 kg)
Axle Torque	5957 lbf. (8077 kg)

Engine/Electrical

Make/Model	Deutz/BF4M1011F Turbo-Charged
Fuel/Cooling	Diesel/Oil
Horsepower (SAE Net)	73 HP (54 kW)
Maximum Governed RPM	2350 RPM
Torque @ 1800 RPM (SAE Net)	176 lbf.-ft. (239 Mn)
Number of Cylinders	4
Displacement	178 cu. in. (2,92 L)
Bore/Stroke	3.59/4.41 (91/112 mm)
Lubrication	Pressure System with Filter
Crankcase Ventilation	Closed Breathing
Air Cleaner	Dry replaceable paper cartridge with safety element
Ignition	Diesel-Compression
Engine Coolant	Oil
Starting Aid	Glow Plugs
Alternator	Belt driven, 90 amps, Open
Battery	12 volts, 1000 cold cranking amps @ 0° F (-18° C), 180 minute reserve capacity
Starter	12 volts, gear type, 4.02 HP (3,0 kW)
Low Idle Speed	1125-1175 RPM
High Idle Speed	2537-2693 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.

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