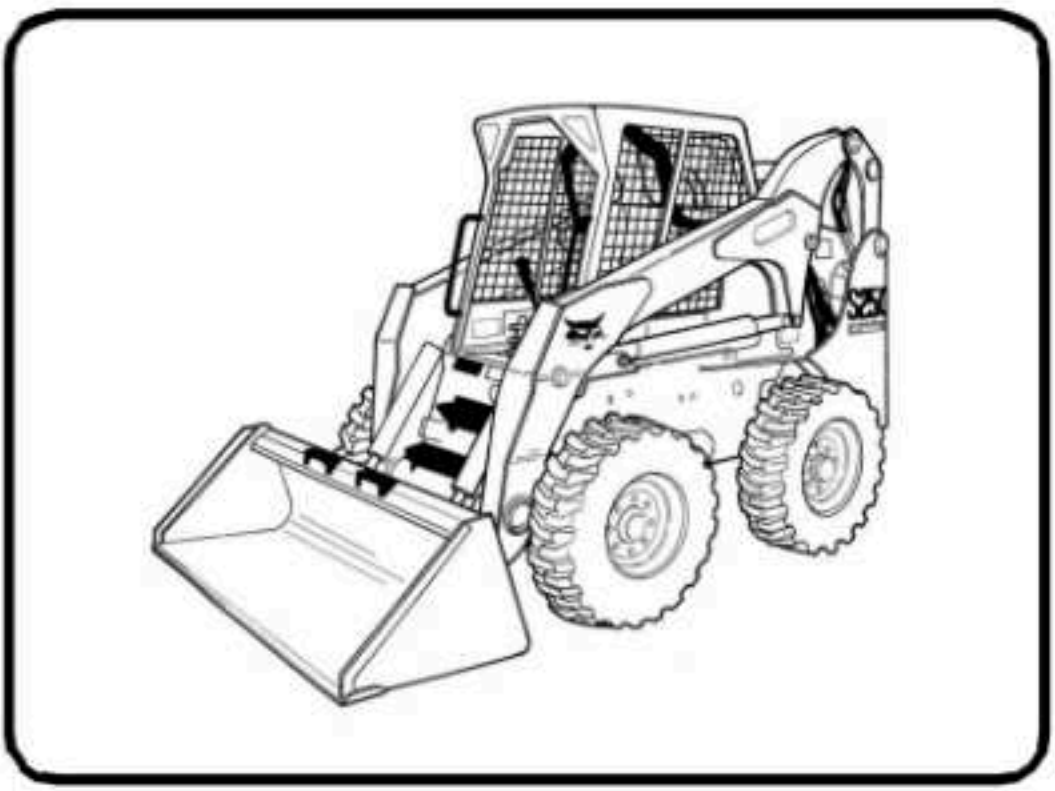
Bobcat®

# Operation & Maintenance Manual
# S250 Skid-Steer Loader

**S/N 530911001 & Above**
**S/N 531011001 & Above**



**EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS)**

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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
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 Bobcat Loader. If you have any questions, see your Bobcat dealer.

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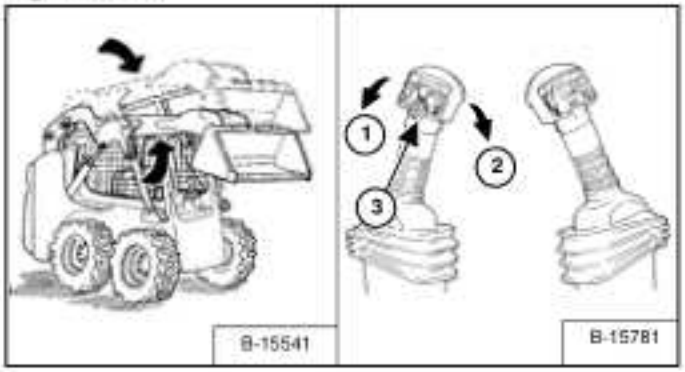
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### Advanced Control System (ACS) In HAND Control Mode

**Figure OI-37**




*Lift Arm Operation - (Left Hand Lever)*

Move the lever outward (Item 1) **[Figure OI-37]** to raise the lift arms.

Move the lever inward (Item 2) **[Figure OI-37]** to lower the lift arms.

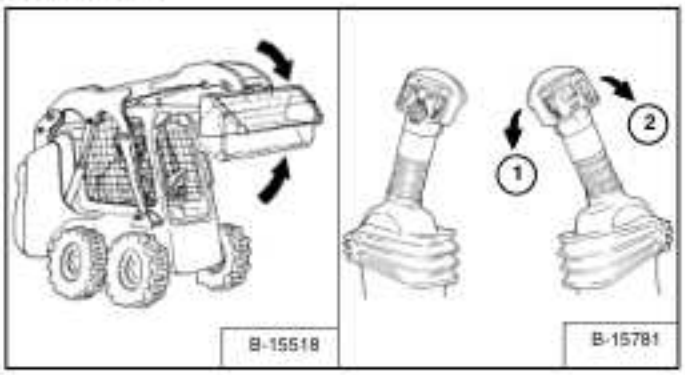
*Lift Arm Float Position - (Left Hand Lever)*

Press and hold the Float button (Item 3) **[Figure OI-37]** while the lever is in neutral. Move the lever to lift arm down position (Item 2) **[Figure OI-37]**, then release the button.

Press Float button (Item 3) **[Figure OI-37]** 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-38**



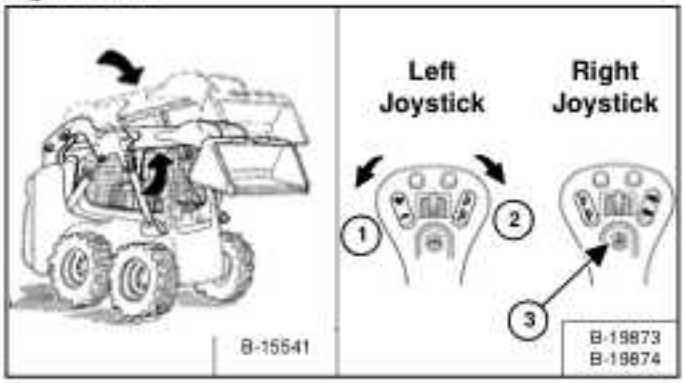

*Tilt Operation - (Right Hand Lever)*

Move the lever inward (Item 1) **[Figure OI-38]** to tilt the bucket backward.

Move the lever outward (Item 2) **[Figure OI-38]** to tilt the bucket forward.

### Selectable Joystick Control (SJC) In 'H' Control Pattern

**Figure OI-39**




*Lift Arm Operation (Left Hand Joystick)*

Move the joystick outward (Item 1) **[Figure OI-39]** to raise the lift arms.

Move the joystick inward (Item 2) **[Figure OI-39]** to lower the lift arms.

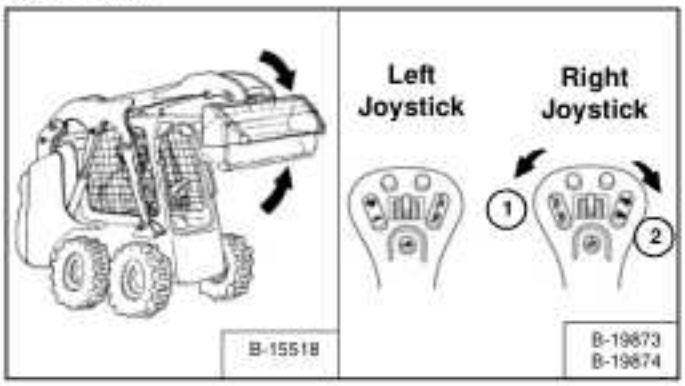
*Lift Arm Float Position - (Left & Right Hand Joysticks)*

Press and hold the Float button (Item 3) **[Figure OI-39]** while the joysticks are in neutral. Move the left joystick to lift arm down position (Item 2) **[Figure OI-39]**, then release the button.

Press Float button (Item 3) **[Figure OI-39]** again or move the left joystick to lift arm up position to disengage.

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

**Figure OI-40**




*Tilt Operation - (Right Hand Joystick)*

Move the joystick inward (Item 1) **[Figure OI-40]** to tilt the bucket backward.

Move the joystick outward (Item 2) **[Figure OI-40]** to tilt the bucket forward.



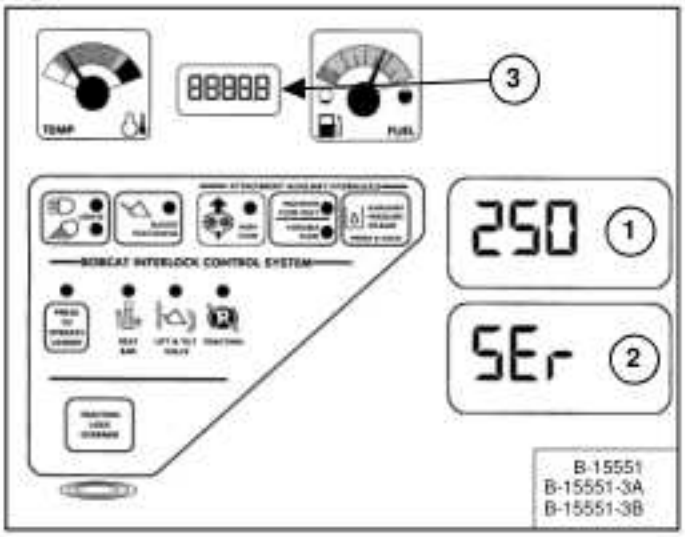
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## MAINTENANCE CLOCK

### 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-9**



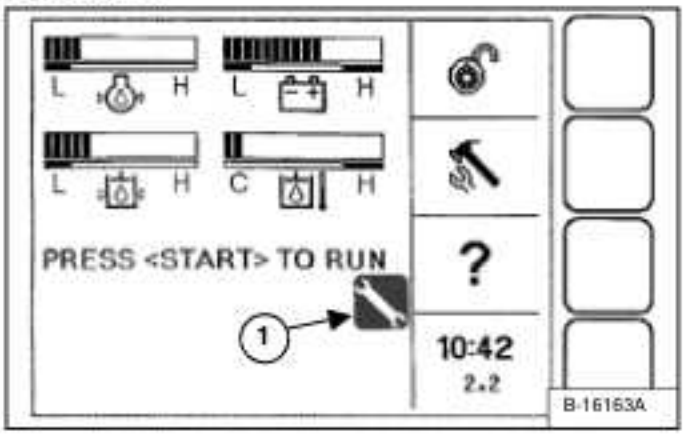

During machine operation, a two beep alarm will sound when there are less than 10 hours until the next planned maintenance. The hour interval (Item 1) and **[SEr]** (Item 2) will alternate in the display screen (Item 3) **[Figure SA-9]** for 10 seconds. The display will then revert back to the previous display and will appear for 10 seconds every time the machine is started until the maintenance clock is reset.

**Figure SA-10**




The Keyless Right Panel, if equipped, will display a message (Item 1) **[Figure SA-10]** 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-11**




The Keyless Right Panel, if equipped, will display a wrench icon (Item 1) **[Figure SA-11]** alerting the operator to service the machine. This icon will remain on the display until the maintenance clock is reset.

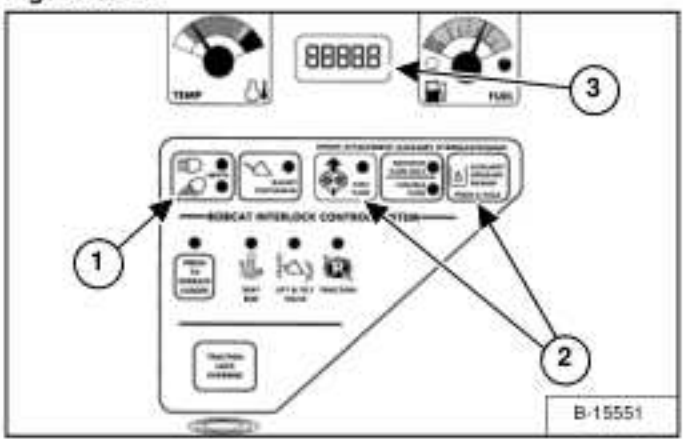
**NOTE: Key Switch machines will not display the BobCARE$^{SM}$ PM message or wrench icon on the right panel.**

### Setup

See your Bobcat dealer about installation of this feature.

### Reset

**Figure SA-12**




Place the key switch in the OFF position (Key Switch) or press the STOP button (Keyless).

Press the LIGHTS button (Item 1) **[Figure SA-12]** to turn the panel ON.

Press and hold the HIGH FLOW and AUXILIARY PRESSURE RELEASE buttons (Item 2) simultaneously, until **[rEsET]** appears in the display screen (Item 3) **[Figure SA-12]**.



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## (S250) LOADER SPECIFICATIONS (CONT'D)

### Performance

| | |
|---|---|
| Rated Operating Capacity (ISO) | 2500 lb. (1135 kg) |
| Rated Operating Capacity (SAE) With Counterweight | 2600 lb. (1179 kg) |
| Tipping Load (ISO Rating) | 5661 lb. (2568 kg) |
| Operating Weight | 7825 lb. (3549 kg) |
| SAE Breakout Force - Lift | 5000 lb. (2268 kg) |
| SAE Breakout Force - Tilt | 5000 lb. (2268 kg) |
| Push Force | 5500 lb. (2495 kg) |
| Travel Speed<br>- Single Speed Loader<br>- Two-Speed Loader (Opt.) Low/High | <br>6.9 mph (11,1 km/hr.)<br>6.9 mph (11,1 km/hr.) / 12.0 (19,1 km/hr.) |

### Controls

| | |
|---|---|
| Vehicle Steering | Direction and speed controlled by two steering levers *or* optional joysticks |
| Loader Hydraulics<br>- Lift and Tilt<br><br>- Front Auxiliary (Standard)<br>- Rear Auxiliary (Option) | <br>Controlled by separate foot pedals or optional Advanced Control System (ACS) *or* optional Selectable Joystick Control (SJC)<br>Controlled by electrical switch on Right Hand steering lever or joystick<br>Controlled by electrical switch on Left Hand steering lever or joystick |
| Auxiliary Pressure Release | Pressure relieved through quick couplers. Push couplers in, hold for 5 seconds. |
| Engine | Hand lever speed control; key-type starter switch and shutdown (or optional keyless start). |
| Starting Aid | Intake Air Heater automatically activated as needed by Instrument Panel |
| Service Brake | Two independent hydrostatic systems controlled by two hand operated steering levers |
| Secondary Brake | One of the hydrostatic transmissions |
| Parking Brake (Standard) | Mechanical disc, hand operated rocker switch on instrument panel |
| Parking Brake (Two-Speed Option) | Spring applied pressure release multi-disk brake activated by rocker switch in instrument panel |

### Engine

| | |
|---|---|
| Make / Model | Kubota V3300-DI-T Turbo-Charged |
| Fuel / Cooling | Diesel / Liquid |
| Horsepower (SAE Net) | 71.7 HP (53,5 kW) @ 2400 RPM |
| Low Idle RPM | 1225 - 1275 |
| High Idle RPM | 2525 - 2575 |
| Torque (SAE Net) | 197.6 lbf.-ft. (267,9 N•m) @ 1400 RPM |
| Number of Cylinders | 4 |
| Displacement | 202.5 cu. in. (3,32 L) |
| Bore / Stroke | 3.86 in. / 4.33 in. (98 mm / 110 mm) |
| Lubrication | Gear Pump Pressure System with Filter |
| Crankcase Ventilation | Open Breathing |
| Air Cleaner | Dry replaceable paper cartridge with safety element |
| Ignition | Diesel - Compression |
| Engine Coolant | Propylene Glycol / Water Mixture |



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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 (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.

SI SSL-1007



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