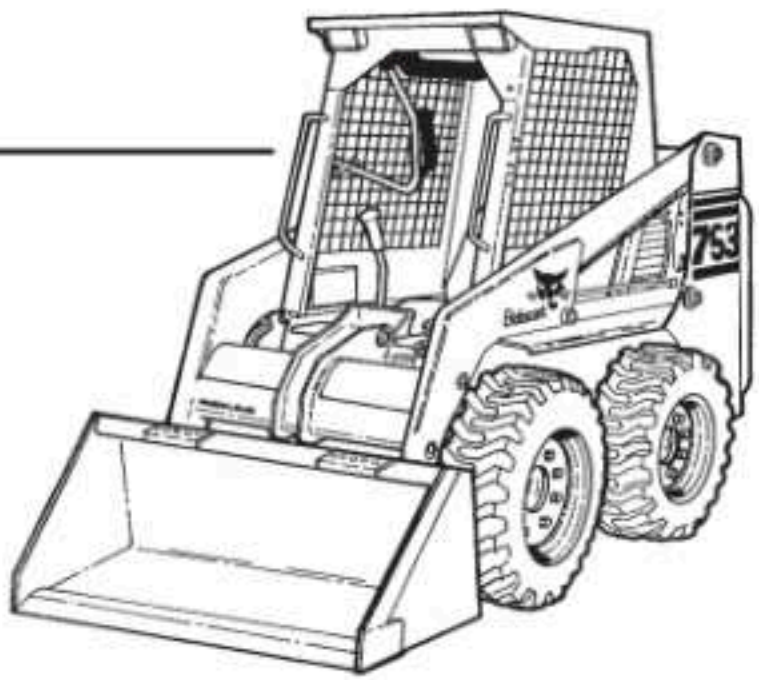
753

Bobcat

# Operation & Maintenance Manual

S/N 515811001–515817499
S/N 516211001–516212999




EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

6900438 (8–98) Revised (11–01)

IR Bobcat

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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
J. Huysmanslaan 59
B–1651 LOT
BELGIUM





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## HYDRAULIC CONTROLS

### Foot Pedals

**⚠ WARNING**

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

W-2002-1285

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

Two foot pedals (Item 1) **[A]** control the hydraulic cylinders for the lift and tilt functions.

#### Lift Arm Operation

The *left pedal* controls the lift arms. Push on the bottom (heel) (Item 2) **[A]** of the lift pedal to raise the lift arms.

Push on the top (toe) (Item 3) **[A]** of the pedal to lower the lift arms.

#### Lift Arm Float Position

Push the top (toe) (Item 3) **[A]** of the pedal all the way forward until it locks into *float* position.

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

Push the bottom (heel) (Item 2) **[A]** of the lift pedal to unlock from the *float* position.

#### Tilt Operation

The *right pedal* controls the action of the bucket. Push the top (toe) (Item 4) **[A]** of the pedal to tilt the bucket forward.

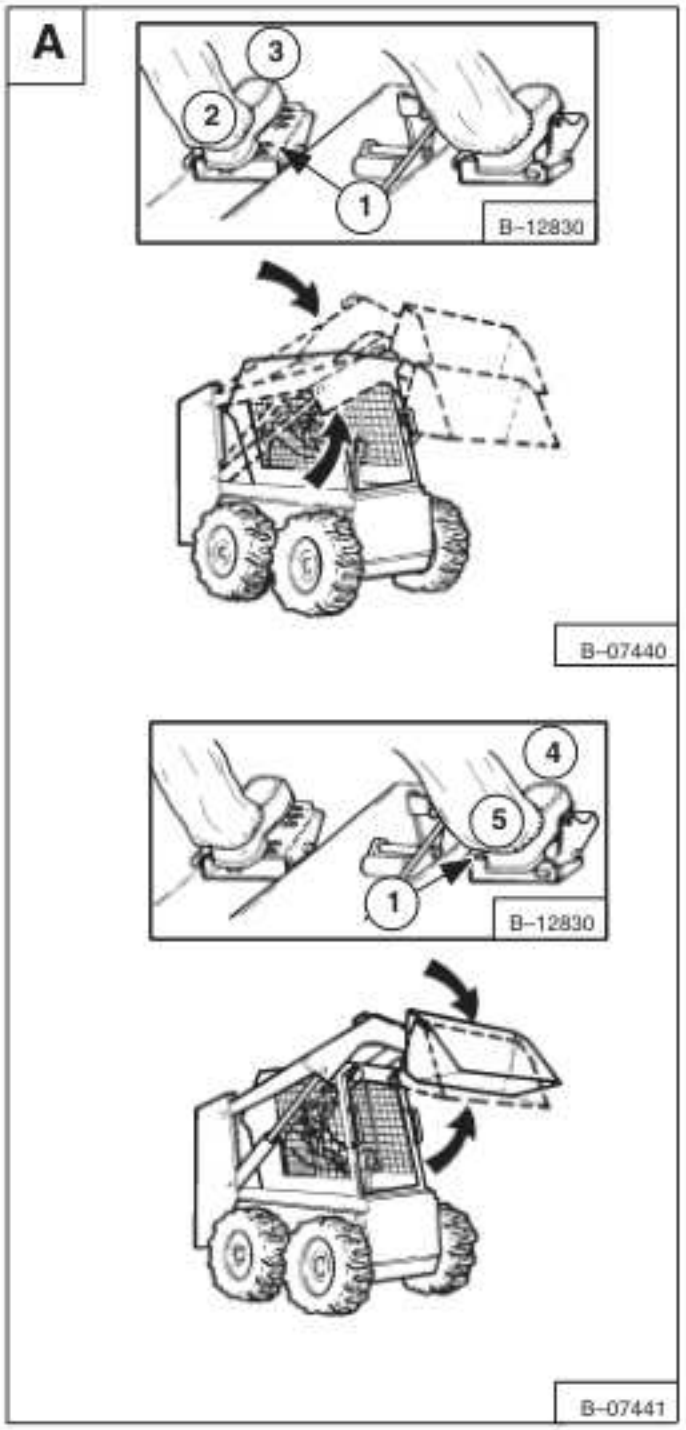
Push the bottom of the tilt pedal (heel) (Item 5) **[A]** to tilt the bucket backward.

### Bucket Position Valve Operation

The function of the bucket position valve is to keep the bucket in the same approximate position it is placed in before beginning the upward lift cycle.

Bucket positioning functions during the upward lift cycle only.

The bucket positioning function can be turned OFF with the bucket level switch. (See Page 3.)






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**⚠ WARNING**

**Never use attachments or buckets which are not approved by Bobcat. Buckets and attachments for safe loads of specified densities are approved for each model. Unapproved attachments can cause injury or death.**

W–2052–1001

The dealer can identify, for each model loader, the attachments and buckets approved by Bobcat Company. The buckets and attachments are approved for rated operating capacity and for secure fastening to the Bob–Tach.

The rated operating capacity for this loader is shown on a decal in the operator cab. (See *SPECIFICATIONS* Page 95.) The rated operating capacity is determined by using a standard dirt bucket, and material of normal density, such as dirt or dry gravel. If longer buckets are used, the load center moves forward and reduces the rated operating capacity. If very dense material is loaded, the volume must be reduced.

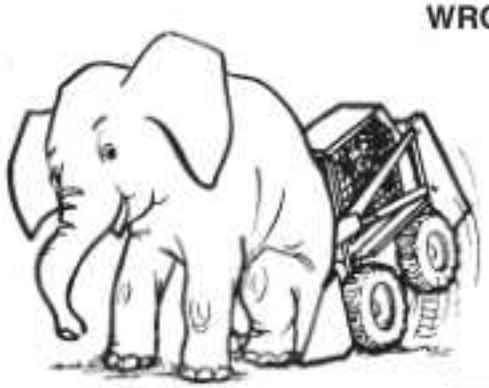
Exceeding the rated operating capacity **[A]** can cause the following problems:

1. Steering the loader may be difficult.
2. Tires will wear faster.
3. There will be a loss of stability.
4. The life of the Bobcat loader will be reduced.

Use the correct size bucket for the type and density of material being handled. For safe handling of materials and avoiding machine damage, the attachment (or bucket) should handle a full load without going over the rated operating capacity for the loader. Partial loads make steering more difficult.

Maximum load to be carried when using a pallet fork are shown in figure **[B]**. See your Bobcat loader dealer for more information about pallet forks and other available attachments.

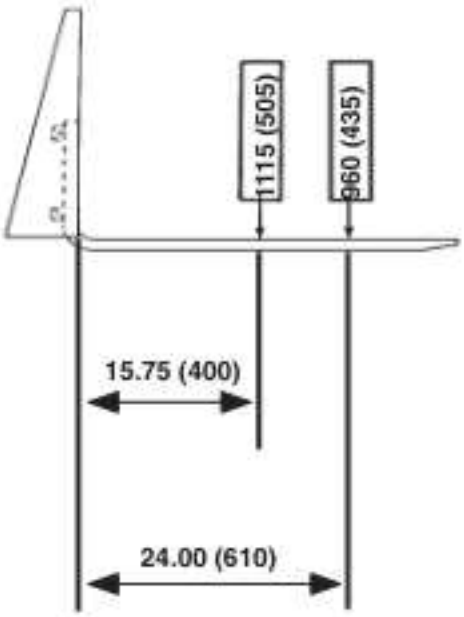
**A** **WRONG**



B–06587

**B** **WEIGHT OF LOADS LBS. (KG)**

(Without counterweights)




**CENTER OF LOAD LOCATION Inches (mm)**

6712931
6712932

**⚠ WARNING**

**AVOID INJURY OR DEATH**

**Do not exceed rated operating capacity. Excessive load can cause tipping or loss of control.**

W–2053–0887



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## SERVICE SCHEDULE

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The service schedule is a guide for correct maintenance of the Bobcat loader.

**⚠ WARNING**

**Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operator and failure to follow instructions can cause injury or death.**

W–2003–0199

| SERVICE SCHEDULE | | HOURS | | | | | |
|---|---|---|---|---|---|---|---|
| ITEM | SERVICE REQUIRED | 8–10 | 50 | 100 | ■ 250 | ■ 500 | ■ 1000 |
| Engine Oil | Check the oil level and add oil as needed. | | | | | | |
| Engine Air Filter and Air System | Check condition indicator or display panel. Service only when required. Check for leaks and damaged components. | | | | | | |
| Engine Cooling System | Clean debris from oil cooler, radiator and grill. Check coolant level in recovery tank (engine cold). Add coolant as needed. | | | | | | |
| Tires | Check for damaged tires and correct air pressure. | | | | | | |
| Seat Belt, Seat Bar, Foot Pedal or Hand Control Interlocks | Check the condition of seat belt. Check the seat bar, and foot pedal interlocks or hand control interlocks. Clean dirt and debris from moving parts. | | | | | | |
| Safety Signs and Safety Tread | Check for damaged signs (decals) and safety tread. Replace any signs or safety treads that are damaged or worn. | | | | | | |
| Indicators & Lights (Opt.) | Check for correct operation of all indicators & lights. | | | | | | |
| Operator Cab | Check the fastening bolts, washers & nuts. Check the condition of cab. | | | | | | |
| Lift Arms, Cyl., Bob–Tach Pivot Pins and Wedges | Lubricate with multi–purpose lithium based grease. | | | | | | |
| Fuel Filter | Remove the trapped water. | | | | | | |
| Bobcat Interlock Control System (BICS™) | Check BICS™ functions. Clean dirt, debris or objects from under and behind seat and around brake pedal as required. | | | | | | |
| Hydraulic Fluid, Hoses and Tubelines | Check fluid level and add as needed. Check for damage and leaks. Repair or replace as needed. | | | | | | |
| Final Drive Trans.(Chaincase) | Check oil level. | | | | | | |
| Foot Pedals, Hand Controls, and Steering Levers | Check for correct operation. Repair or adjust as needed. | | | | | | |
| Wheel Nuts | ☐ Check for loose wheel nuts and tighten to 105–115 ft.–lbs. (142–156 Nm) torque. | | | | | | |
| Parking Brake | Check operation. | | | | | | |
| Spark Arrestor Muffler | Clean the spark chamber. | | | | | | |
| Battery | Check cables, connections and electrolyte level. Add distilled water as needed | | | | | | |
| Steering Shaft | Grease two fittings. | | | | | | |
| Engine/Hydros. Drive Belt | * Check for wear or damage. Adjust as needed. | | | | | | |
| Fan Drive Gearbox | Check gear lube level. Add as needed. | | | | | | |
| Alternator Belt | Check belt tension and adjust as needed. | | | | | | |
| Engine Oil and Filter | † Replace oil and filter. Use CD or better grade oil and Bobcat filter. | | | | | | |
| Fuel Filter | Replace the filter element. | | | | | | |
| Hydraulic Reservoir Breather Cap | Replace the reservoir breather cap. | | | | | | |
| Hydraulic Reservoir | Replace the fluid. | | | | | | |
| Final Drive Trans.(Chaincase) | Replace the fluid. | | | | | | |
| Hydraulic/Hydrostatic Filter | • Replace the filter element. | | | | | | |
| Case Drain Filters | Replace the filters. | | | | | | |
| Bobcat Interlock Control System (BICS™) | Check lift arm bypass control | | | | | | |

☐ **Check wheel nut torque every 8 hours for the first 24 hours.**
• **Replace filter element after the first 50 hours and when the transmission warning light comes ON.**
■ **Or every 12 months.**
* **Inspect the new belt after first 50 hours.**
† **First oil and filter change must occur at 50 hours; 250 hours thereafter.**



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## BEFORE OPERATING THE BOBCAT LOADER

**Safety Alert Symbol**

**This symbol with a warning statement means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.**

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 this Manual.

**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

## SAFE OPERATION NEEDS A QUALIFIED OPERATOR *

**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 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 of the machine. Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of load if handling dense material.
  - The operator must know any prohibited uses or work areas, for example, he 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 *SAFETY INSTRUCTIONS* Section of this manual.
  - Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, hearing protection or special applications kit are required for some work. See your dealer about Bobcat Safety equipment.

* For an operator be qualified, he must not use drugs or alcoholic drinks which impair his alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he can safely operate a machine.

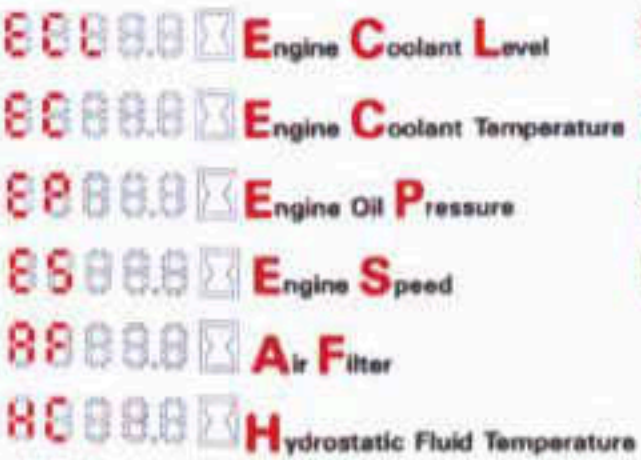
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# MONITOR SERVICE CODES

One of the following Alphabetic Codes may appear on your monitor.




One of the following Numeric Codes will appear following one of the above Alphabetic Codes. Example:




SC01-0199



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