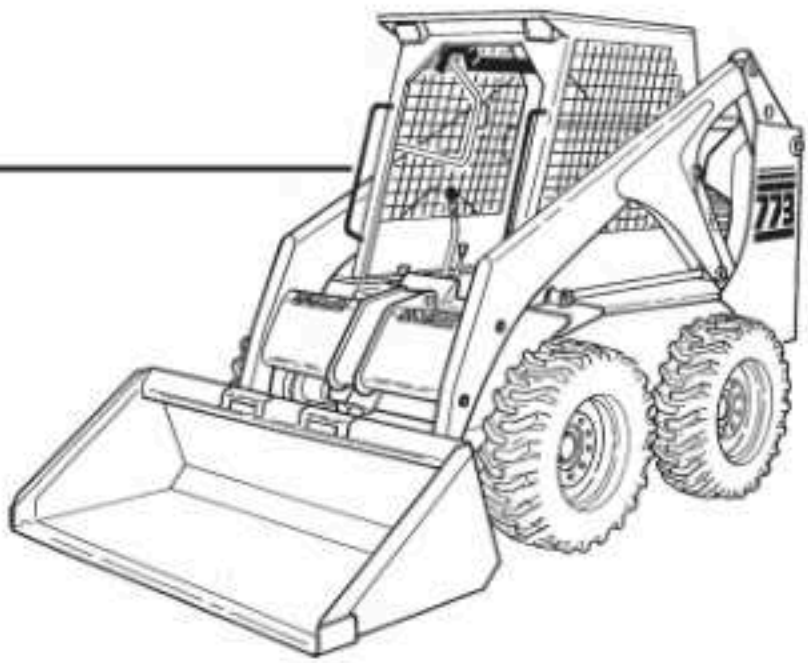
773

Bobcat®

Operation & Maintenance Manual



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

IR Bobcat

6900372 (8–98) Revised (5–01) 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: _____

Melroe Company
P.O. Box 128
Gwinner, ND 58040–0128

Melroe Europe
J. Huysmanslaan 59
B–1651 LOT
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 LOADER. If you have any questions, see your Bobcat loader dealer.

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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 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 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.

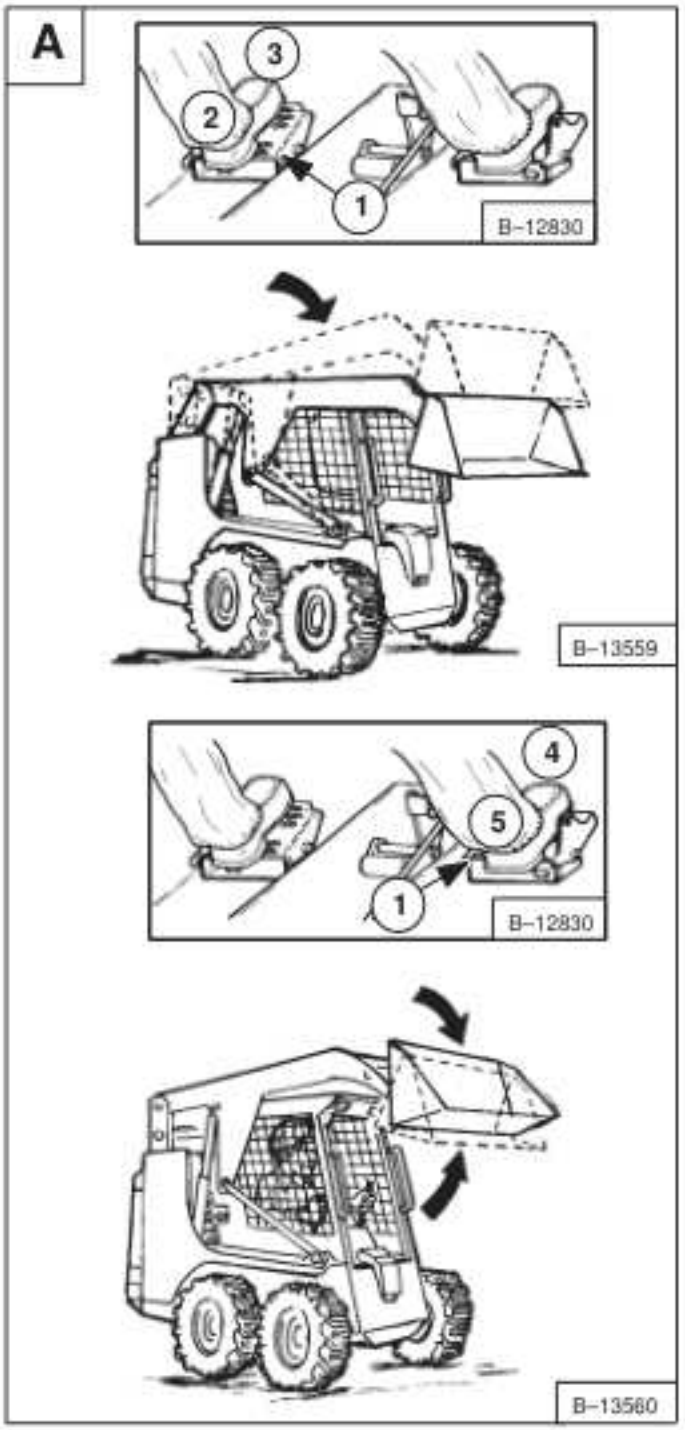
Push the bottom of the pedal (heel) (Item 5) **[A]** to tilt the bucket backward.

Bucket Position Valve Operation (If Equipped)

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 automatically during the upward lift cycle only.

The bucket positioning function can be turned OFF with the bucket level switch (See Page 3, 4, 5 & 6).



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TRANSPORTING THE BOBCAT LOADER

⚠ WARNING

Adequately designed ramps of sufficient strength are needed to support the weight of the machine when loading onto a transport vehicle. Wood ramps can break and cause personal injury.

W–2058–0494

A loader with an empty bucket or no attachment must be loaded backward onto the transport vehicle **[A]**.

Be sure the transport and towing vehicles are of adequate size and capacity (See *SPECIFICATIONS* Page 95, for weight of loader.).

The rear of the trailer must be blocked or supported **[A]** when loading or unloading the loader to prevent the front end of the trailer from raising up.

Use the following procedure to fasten the Bobcat loader to the transport vehicle to prevent the loader from moving during sudden stops or when going up or down slopes **[B]**.

- Lower the bucket or attachment to the floor.
- Stop the engine.
- Engage the parking brake.
- Install chains at the front and rear loader tie down positions (Inset) **[B]**.
- Fasten each end of the chain to the transport vehicle.

TOWING THE LOADER

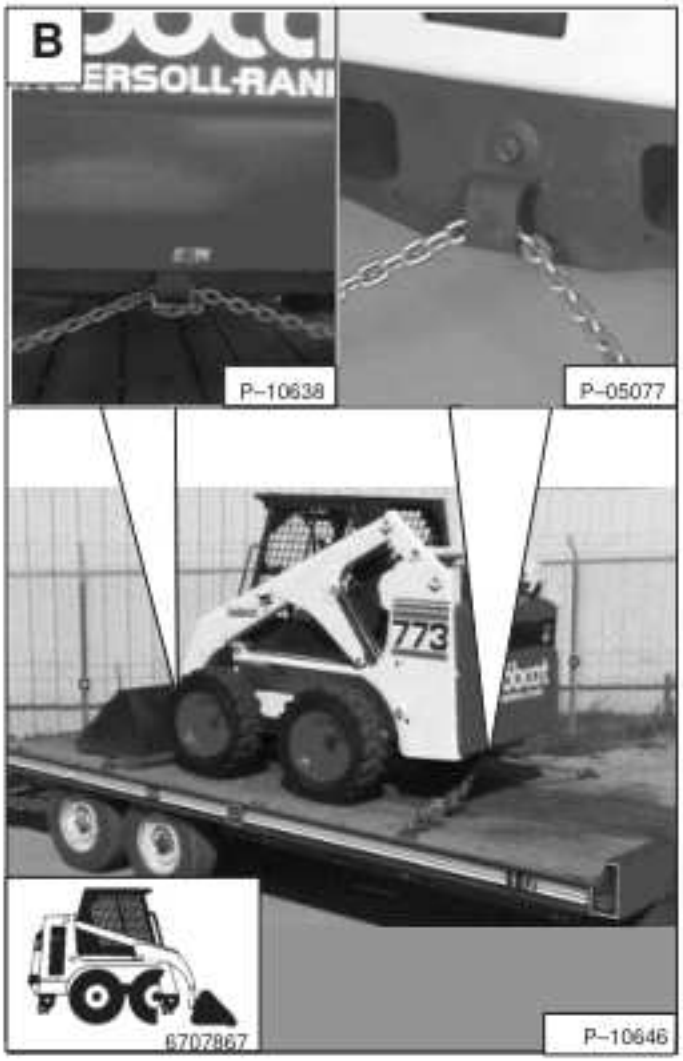
To prevent damage to the loaders hydrostatic system, the loader must be towed only a short distance at slow speed. (Example: Moving the loader onto a transport vehicle).

The towing chain (or cable) must be rated at 1 & 1/2 times the weight of the loader. (See *SPECIFICATIONS* Page 95.)

- Turn the key switch to ON and press the traction lock override button.
- Tow the Bobcat at 2 MPH (3,2 km/hr) or less for not more than 25 feet (7,6 meters).

If the electrical system is not functioning, contact your Bobcat loader dealer. (Part of the brake system must be disassembled to move the loader.)





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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 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. Failure to follow instructions can cause injury or death.

W–2003–0797

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) Foot Pedals, Hand Controls, and Steering Levers	Check oil level. 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 Melroe 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.

⚠ WARNING

Operator must have instructions before running the machine. Untrained operators can cause injury or death.

W-2001-1285



B-10731

The Bobcat loader must be in good operating condition before use.

Check all of the items on the Service Schedule under the 8–10 hour column or as shown in this Manual.

⚠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

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284

SAFE OPERATION NEEDS A QUALIFIED OPERATOR*

A QUALIFIED OPERATOR MUST DO THE FOLLOWING:

- UNDERSTAND THE WRITTEN INSTRUCTIONS, RULES AND REGULATIONS
  - The written instructions from Melroe Company include the Delivery Report, Operation & Maintenance Manual, Operator's Handbook, EMI 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 Slow Moving Vehicle emblem. Regulations may identify a hazard such as a utility line.
- HAVE TRAINING WITH ACTUAL OPERATION
  - Operator training must consist of a demostration and verbal instruction. This training is given by your dealer before the loader is delivered.
  - The new operator must start in an area without bystanders and use all the controls until he can operate the loader safely under all conditions of the work area. Always fasten seat belt and lower seat bar before operating.
  - The Skid Steer Loader Operator Training Course is available in English and Spanish. The course provides information for safe and efficient operation. See your dealer for availability.
- KNOW THE WORK CONDITIONS
  - For each material to be handled, the operator must know how to avoid exceeding the rated operating capacity of the loader. For example, in handling certain loose material with a given bucket, he must know whether he can safely take a full load, or only part of a bucket load.
  - 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 maintaining or servicing loader. Safety glasses, hearing protection or loader special applications kit are required for some work. See your dealer about Melroe Safety equipment.

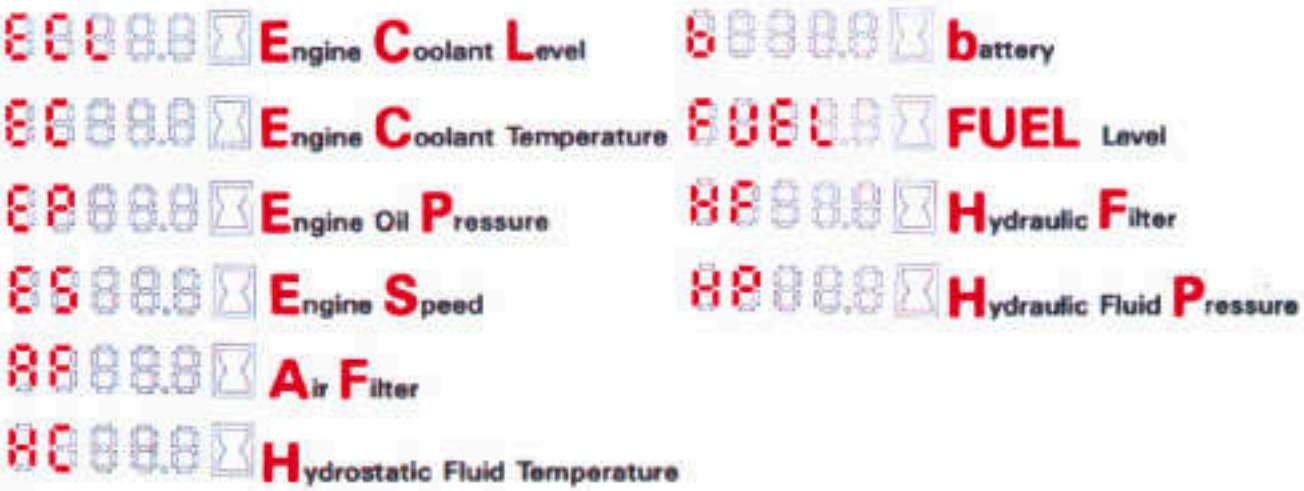
* For an operator be qualified, he must not use drugs or alcoholic drinks which impair his alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he can safely operate a machine.

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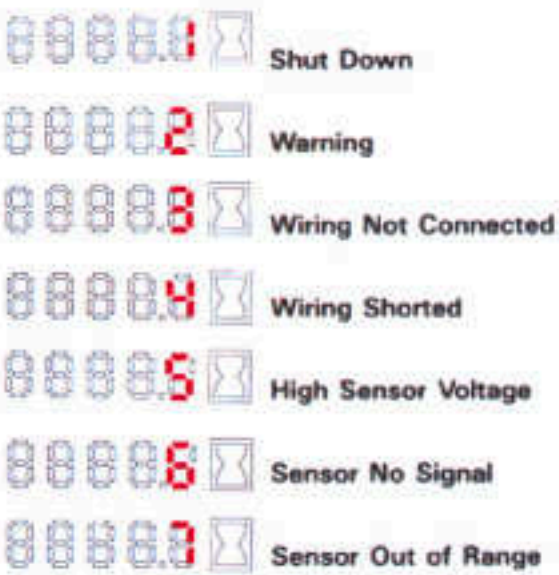
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MONITOR SERVICE CODES

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: 



SC01-0198

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