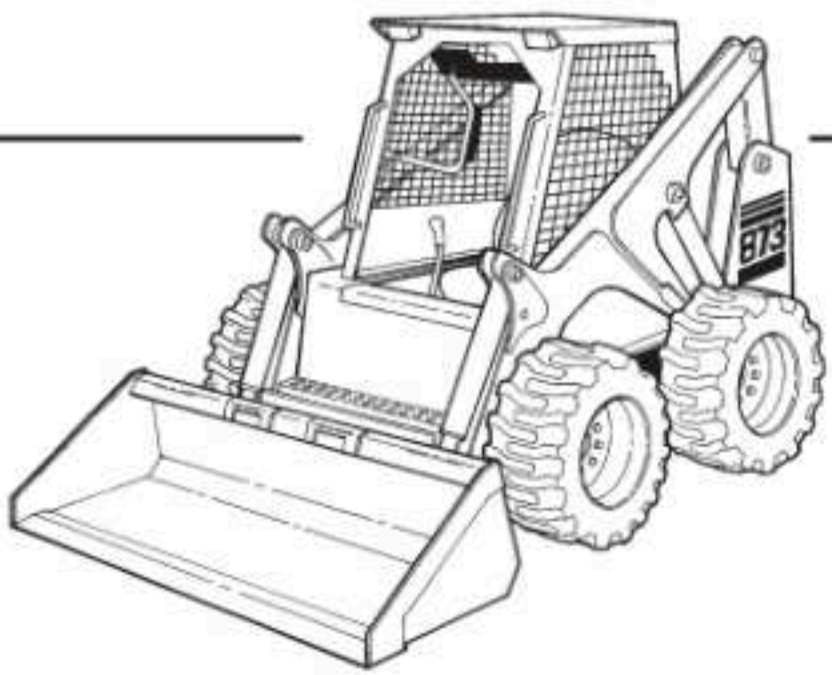
873

Operation & Maintenance Manual

S/N 514111001 & Above
Europe Only S/N 514211001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

MELROE
INGERSOLL-RAND
6900369 (7–98) Revised (10–98) Printed in U.S.A.

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: _____

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

Melroe Europe
J. Huysmanslaan 59
B–1651 LOT
BELGIUM

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HYDRAULIC CONTROLS (Cont'd.)

Attachment Functions Control
(Attachment Control Kit Required) (Item 1) **[A]**

When his kit is installed, you can use other switches on the right and left control handles (Deluxe Handles) for functions such as water spray, left/right turn signals (Europe only), raise/lower the left/right ends of the moldboard on a Grader, etc.

The following are examples only, consult Attachment Operation & Maintenance Manual:

Switch (Item 1) **[B]** ... Left/Right Turn Signals
Switch (Item 2) **[B]** ... Left Moldboard Up/Down
Switch (Item 3) **[B]** ... Right Moldboard Up/Down
Switch (Item 4) **[B]** ... Water Spray

⚠ 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 or 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

Relieving Hydraulic Pressure

Hydraulic pressure in the auxiliary hydraulic system can make it difficult to connect to the quick couplers.

Relieve hydraulic pressure in the auxiliary hydraulic system as follows:

Front Quick Couplers

With the engine running, turn the key switch quickly to the left (counterclockwise) past the OFF POSITION. Hold key for at least five seconds after the engine comes to a complete stop. This relieves pressure that can be trapped in the front auxiliary circuit which would make it difficult to engage quick couplers from an attachment.

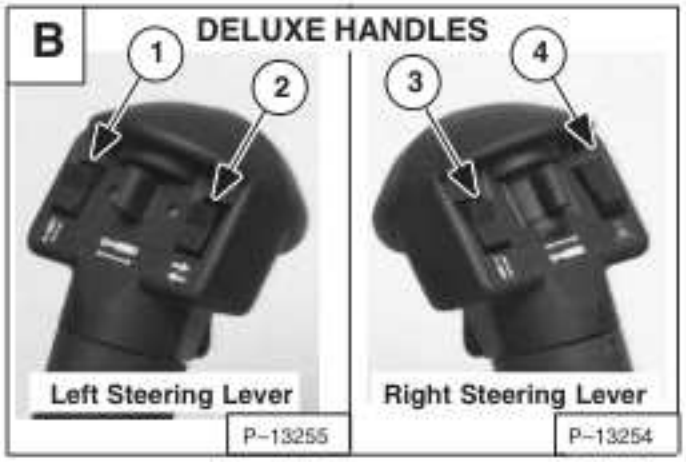
Rear Quick Couplers

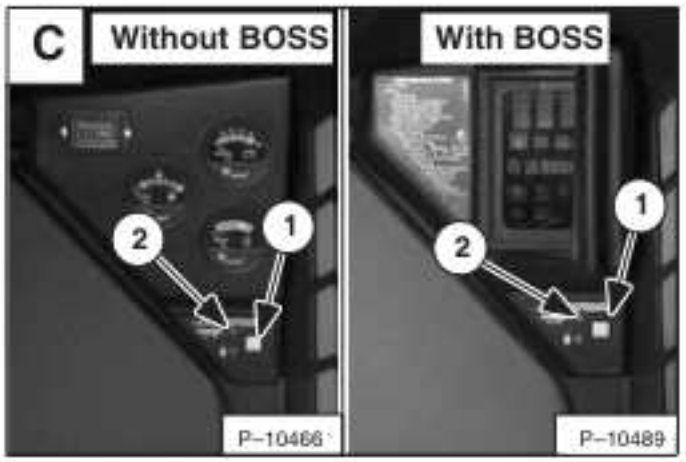
Early Model Rear Auxiliary Hydraulic Kits
With the engine running, press the Auxiliary Hydraulics Switch (Item 1) **[C]** to engage the Auxiliary Hydraulics. The light (Item 2) **[C]** will come ON.

Push the heel of the tilt pedal (or move the right *hand control* toward the operator) so the hydraulic fluid goes over the main relief pressure. At the same time push switch (Item 1) **[B]** back and forth several times to relieve the pressure at the quick couplers. Release the tilt control. Stop the engine.

Later Model Rear Auxiliary Hydraulic Kits
The pressure relieving procedure is the same as *Front Quick Couplers* above.







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⚠ WARNING

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

W–2052–1285

The dealer can identify, for each model loader, the attachments and buckets approved by Melroe 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 91.)

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 and load center moves forward it reduces the rated operating capacity. If very dense material is loaded, the volume must be reduced.

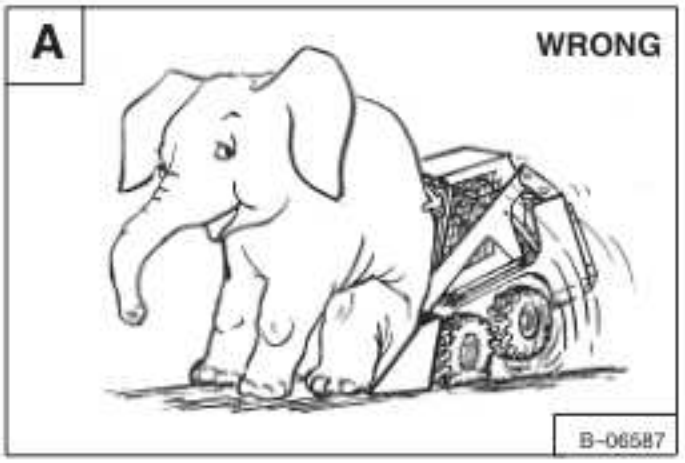
Exceeding the rated operating capacity **[A]** can cause the following problems:

1. Steering the loader may be difficult.
2. Tires may 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 is shown in figure **[B]**. See your Bobcat loader dealer for more information about pallet forks and other available attachments.

A



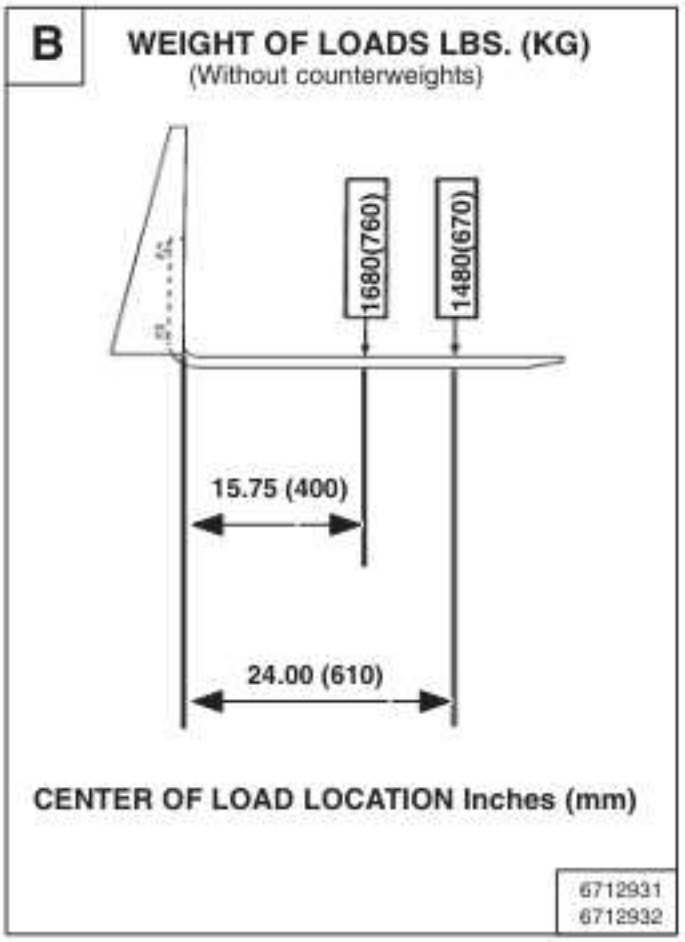
⚠ WARNING

AVOID INJURY OR DEATH

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

W–2053–0887

B



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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	250	500	■ 1000	◊ 3000
Engine Oil	Check the oil level and add oil as needed.						
Engine Air Cleaner	Check condition indicator or display panel. Service only when required.						
Engine Cooling System	Clean debris from oil cooler radiator & grill.						
Lift Arms, Cyl., Bob–Tach Pivot Pins and Wedges	Lubricate with multi–purpose lithium based grease (12 places).						
Engine Air System	Check for leaks and damaged components.						
Tires	Check for damaged tires and correct air pressure.						
Seat Belt, Seat Bar & Pedal Interlocks or Hand Control Interlocks	Check the condition of seat belt. Check the seat bar and foot pedal interlocks or hand control interlocks for correct operation. Clean dirt and debris from moving parts.						
Bobcat Interlock Control System (BICS™)	Check BICS™ functions. Clean dirt, debris or objects from under or behind seat and around brake pedal as required.						
Safety Signs and Safety Treads	Check for damaged signs (decals) and safety treads. Replace any signs or safety treads that are damaged or worn.						
Operator Cab	Check the fastening bolts, washers and nuts. Check the condition of the cab.						
Fuel Filter	Remove the trapped water.						
Traction Lock Control Sys.	Check operation and correct as needed.						
Hyd. Fluid, Hoses and Tubelines	Check fluid level & add as needed. Check for damage & leaks. Repair or replace as needed.						
Final Drive Trans.(Chaincase)	Check oil level.						
Battery	Check cables, connections and electrolyte level. Add distilled water as needed.						
Foot Pedals or Hand Controls and Steering	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 of the brake.						
Alternator Belt	Check tension and adjust as needed.						
Engine/Hydro. Drive Belt	• Check for wear or damage. Check idler arm stop.						
Fuel Filter	Replace filter element.						
Steering Shaft	Grease three fittings.						
Hyd. Res. Breather Cap	Replace the reservoir breather cap.						
Hyd./ Hydro. Filter	● Replace the filter element.						
Engine Oil and Filter	† Replace oil and filter. Use CD or better grade oil and Melroe filter.						
Final Drive Trans.(Chaincase)	Replace the oil in the chaincase.						
Hydraulic Reservoir	Clean or replace the fluid.						
Case Drain Filters	Clean or replace the case drain filters.						
Bobcat Interlock Control System (BICS™)	Check lift arm by–pass control.						
Fan Drive Gearbox	Check gear lube level.						
Engine Valves	∞ Adjust the engine valves.						
Engine Timing Belt	◊ Replace the timing belt and belt tensioner assy.						

□ **Check wheel nut torque every 8 hours for the first 24 hours.**
• **Inspect the new belt after first 50 hours.**
● **Also replace hydraulic/hydrostatic filter element when the transmission warning light comes ON.**
† **After the first 50 hours.**
∞ **After the first 500 hours on new engine, adjust engine valves; 1000 hours thereafter. (See Service Manual for procedure.)**
■ **Or every 12 months.**
◊ **Or every 5 years.**

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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.

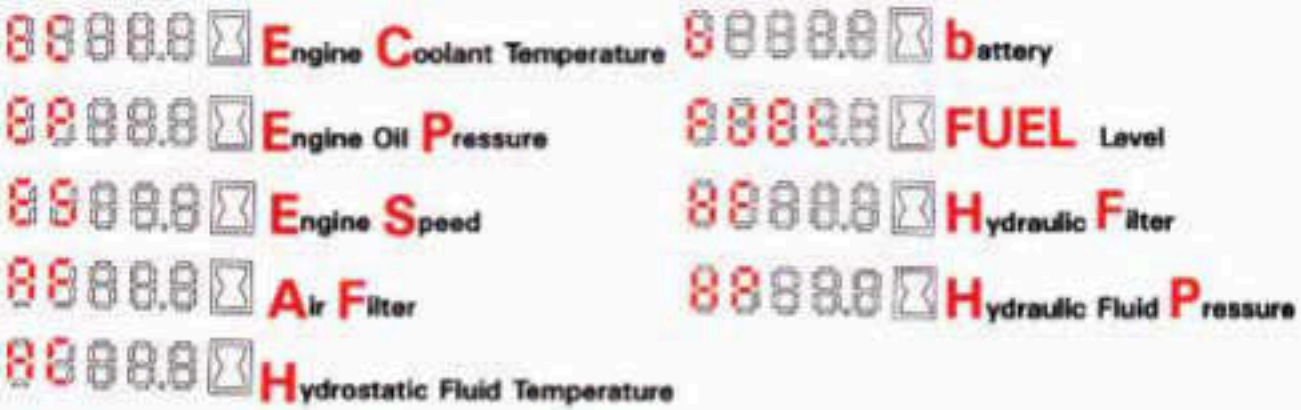
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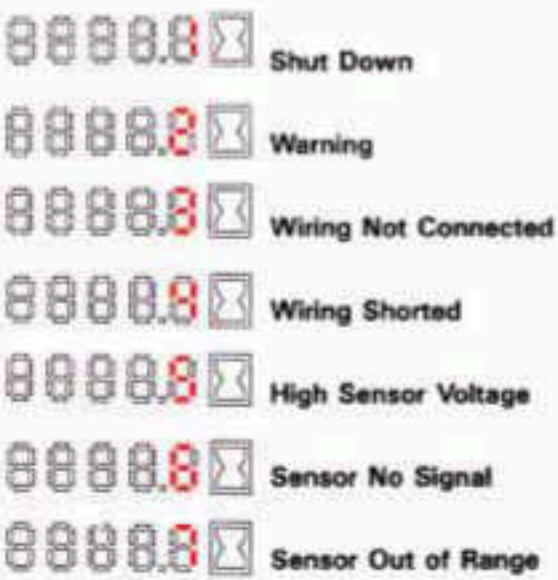
MONITOR SERVICE CODES

(BOSS Option)

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: 



SC02–0198

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