bobcat

542B

S/N 12001 & Above

Operation & Maintenance Manual



MELROE COMPANY

6729358 (11-89)

Printed in U.S.A.

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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 dealer.

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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 LOADER DEALER: _____
ADDRESS: _____
PHONE: _____

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HYDRAULIC CONTROLS

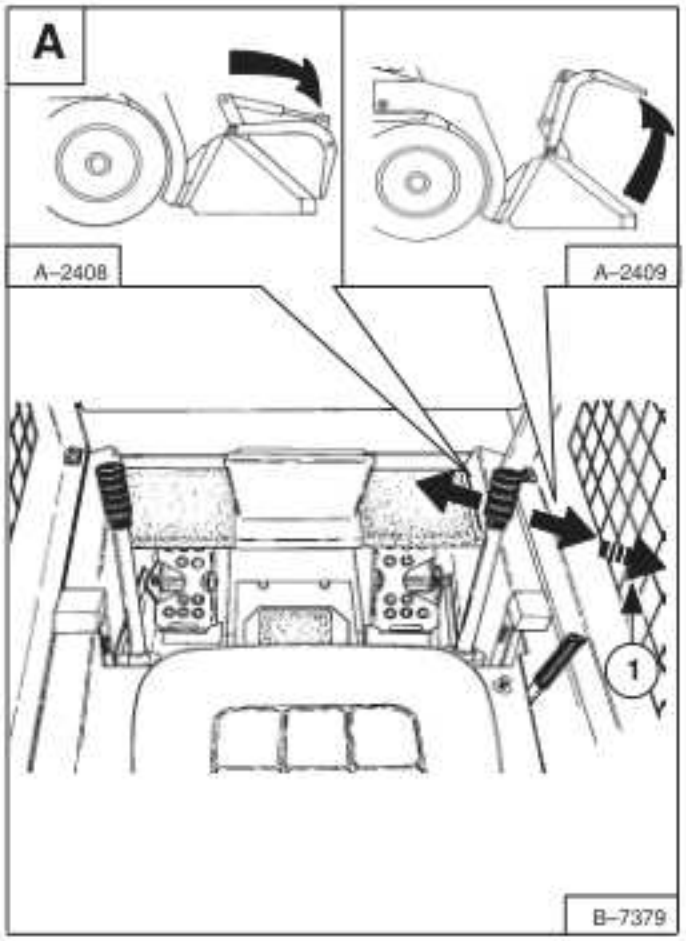
Foot Pedals

Auxiliary Lever Operation

The right steering lever is also the control lever for the auxiliary hydraulics **[A]**

Move the right steering lever to the left or right to activate the auxiliary hydraulics and operate an attachment. (Example: To open or close grapple teeth.). **[A]** Move the lever in the opposite direction to reverse the action of the attachment.

Move the steering lever all the way to the right (Item 1) to put the control valve into the "detent" position for a constant flow of hydraulic fluid under pressure to the quick couplers. (Example: OPerate a Bobcat).



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ATTACHMENT AND BUCKETS

⚠ 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 label in the operator cab (Also see the "Specifications" section, Page 49). It 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.

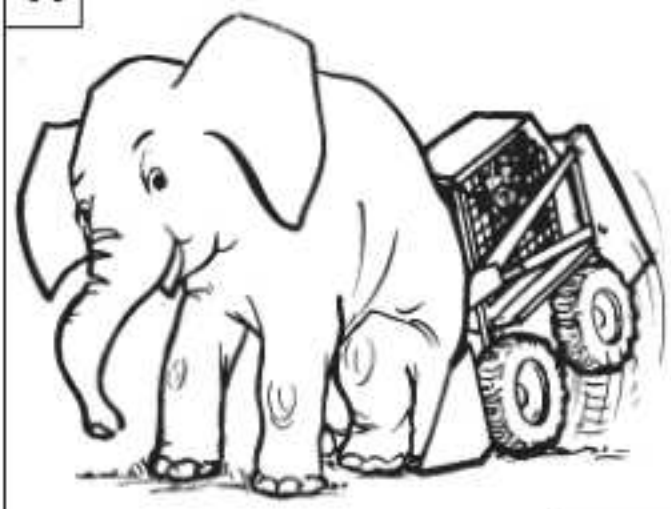
Exceeding the Rated Operating Capacity can cause the following problems **[A]**:

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 loads to be carried when using a pallet fork are shown in figure **[B]**.

A



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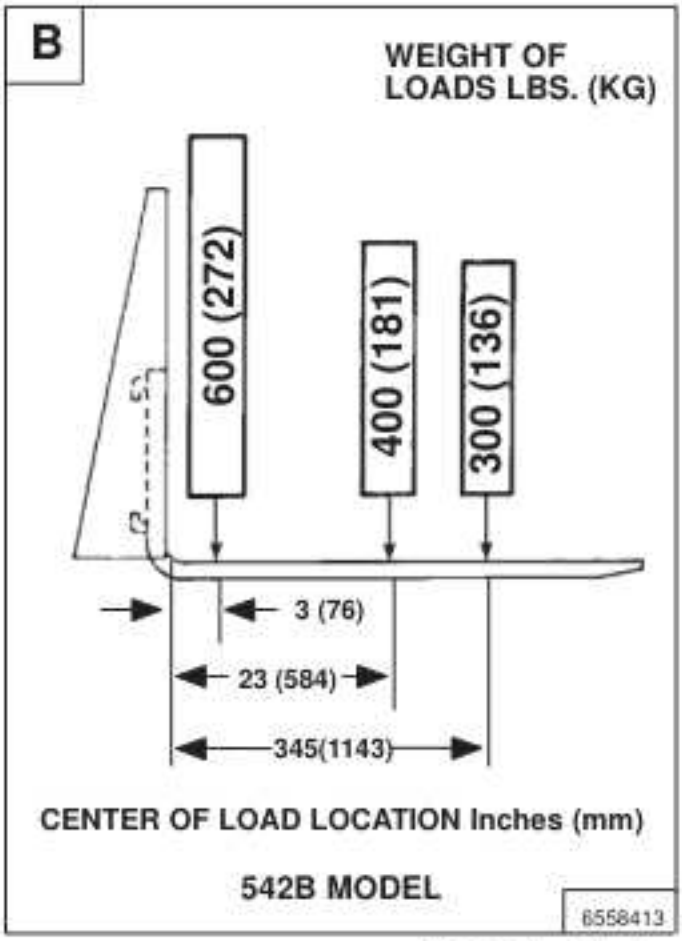
⚠ WARNING

AVOID INJURY OR DEATH

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

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B

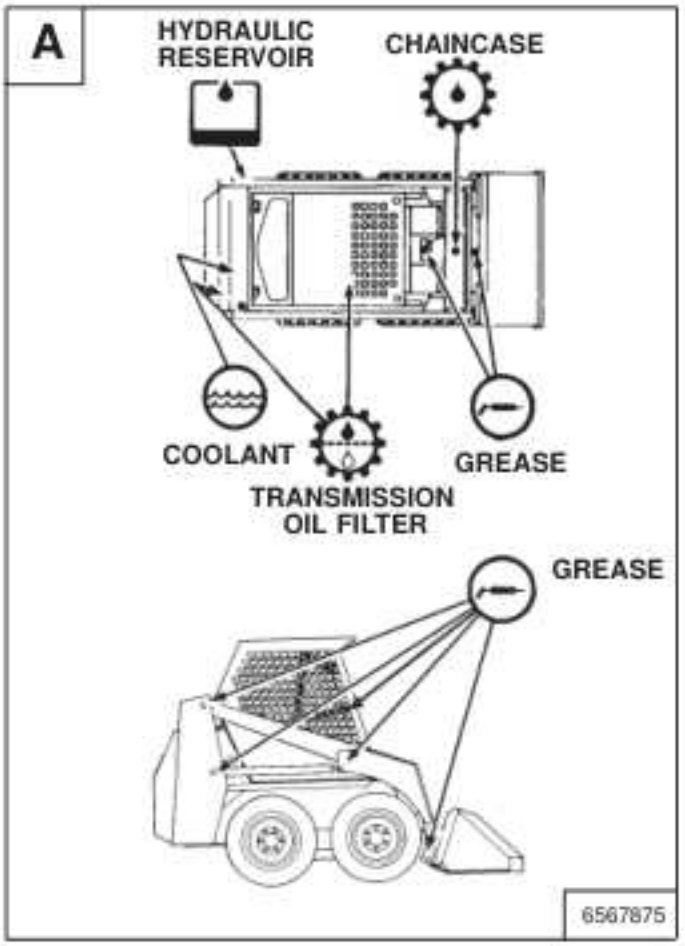


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LUBRICATION OF THE BOBCAT LOADER

Lubricate the Bobcat loader as specified in the Service Schedule (Page 19) for the best performance **[A]**.

Always use good quality lithium based multipurpose grease when you lubricate the Bobcat loader. Apply lubricant until extra grease shows.



See the Service Schedule (Page 19) for service interval to grease the U–joints.

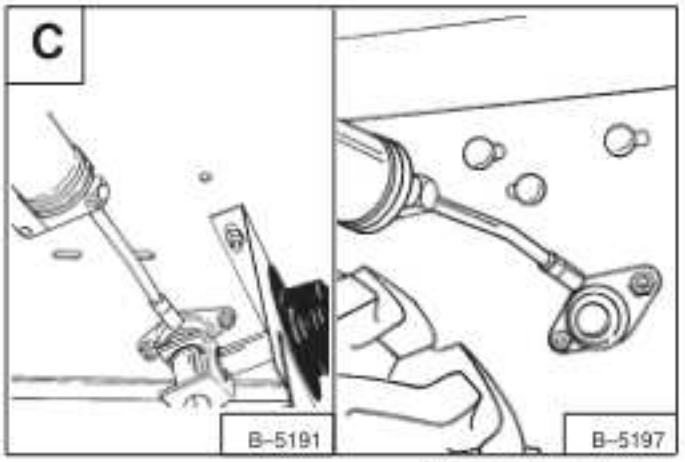
Raise the operator cab (Page 21).

Use a special U–joint grease (P/N 6599719) to assure correct lubrication of the U–joints **[B]**.



See the Service Schedule (Page 19) for the interval when to grease the steering lever pivot bearings and shaft.

Grease the pivot bearings for the steering levers **[C]**.



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I. SAFETY INSTRUCTIONS

A. SAFETY IS THE OPERATOR'S RESPONSIBILITY

The Skid Steer Loader is a highly maneuverable and compact machine. In operation, it is rugged and useful under a wide variety of conditions. This presents an operator with hazards associated with off highway, rough terrain applications and are not unique for use of Bobcat loaders. The loader has an internal combustion engine with resultant heat and exhaust. All exhaust gases can kill so the loader must be used with adequate ventilation. The loader has a spark arrestor muffler which is required for operation in certain areas.

The dealer recommends the capabilities and restrictions of the loader and attachments for each application. The dealer demonstrates the safe operation of the loader according to Melroe's instructional materials; which are also available to operators. The dealer can also identify unsafe modifications or use of unapproved attachments. The attachments and buckets are designed for rated capacity and secure fastening to the loader. The user must check with the dealer or Melroe Company literature to determine safe loads of materials of specified densities for his loader–attachment combination.

The following publications provide information on the safe use and maintenance of the loader and attachments:

1. The Delivery Report is used to assure that complete instructions have been given to the new owner and that the machine is in safe operating condition.
2. The Operation & Maintenance Manual delivered with the loader gives operating information as well as routine maintenance and service procedures. It is a part of the loader and must stay with the machine when it is sold. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat loader dealer.
3. The loader has machine signs (decals) which instruct on the safe operation and care. The signs and their location are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat loader dealer.
4. The loader has a plastic Operator Handbook fastened to the operator cab. It's brief instructions are convenient to the operator. The handbook is available from your dealer in English edition or a combination English, French, German, Spanish edition.
5. The FIEI Manual delivered with the loader gives general safety information.
6. The Service Manual and Parts Manual are available from your Bobcat dealers for use by mechanics to do shop–type service and repair work.

The dealer and owner/operator review the recommended uses of the loader and attachments when the loader is delivered. If owner/operator will be using the loader for a different application then was originally demonstrated by the dealer, ask the dealer for recommendations on the new use.

B. BEFORE OPERATING THE BOBCAT LOADER

This safety symbol is used for important safety messages. When you see this symbol, follow the safety message to avoid personal injury.





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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.





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