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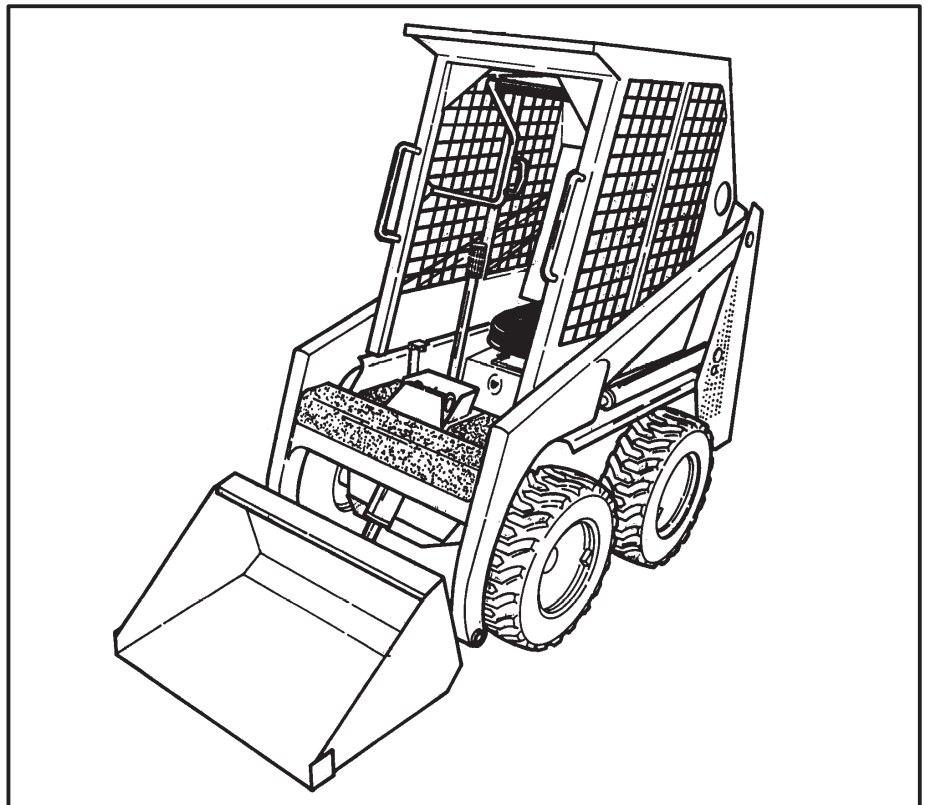
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Operation & Maintenance Manual



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MELROE
INGERSOLL-RAND

6722481 (3-98) Revised (3-99)

Printed in U.S.A.



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SAFETY INSTRUCTIONS

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. The loader has an internal combustion engine with resultant heat and exhaust. All exhaust gases can kill or cause illness 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 explains 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 and training materials provide information on the safe use and maintenance of the loader and attachments:

- 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.
- The Operation and 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 can be stored in a container (later models) provided inside the cab. Replacement Operation and Maintenance Manuals can be ordered from your Bobcat loader dealer.
- The loader has machine signs (decals) which instruct on the safe operation and care. The signs and their locations are shown in the Operation and Maintenance Manual. Replacement signs are available from your Bobcat loader dealer.
- The loader has a plastic Operator's Handbook fastened to the operator cab. Its brief instructions are convenient to the operator. The Handbook is available from your dealer in an English edition or one of many other languages. See your Bobcat dealer for more information on translated versions.
- The EMI Safety Manual (available in Spanish) delivered with the loader gives general safety information.
- The Service Manual and Parts Manual are available from your dealer for use by mechanics to do shop-type service and repair work.
- The Skid-Steer Loader Operator Training Course is available through your local Bobcat dealer. This course provides information for safe and efficient operation of the Bobcat loader. The course is available in English and Spanish versions.
- The Service Safety Training Course is available from your Bobcat dealer. This course provides information for safe and correct service procedures for Bobcat Skid-Steer loaders.
- The Bobcat Skid-Steer Loader Safety Video is available from your Bobcat Dealer.

The dealer and owner/operator review the recommended uses of the loader and attachments when the loader is delivered. If the owner/operator will be using the loader for a different application(s) he must ask the dealer for recommendations on the new use.



Call Before You Dig 1-888-258-0808

When you call, you will be directed to a location in your state/city for information about buried lines (telephone, cable TV, water, sewer, gas, etc.).

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STEERING LEVERS

! WARNING

AVOID INJURY OR DEATH

Before you leave the operator's seat:

- Lower the lift arms, put the attachment flat on the ground.
- Stop the engine.
- Engage the parking brake.
- Raise seat bar, move pedals until both locked.

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The steering levers (Item 1) [A] are on the right and left side in front of the seat.

For safe control of the loader always move the levers slowly and smoothly. Only a small movement is necessary to move the Bobcat loader.

The steering levers control forward and reverse travel of the loader [A].

Forward Travel: Push both levers forward.

Reverse Travel: Pull both levers backward.

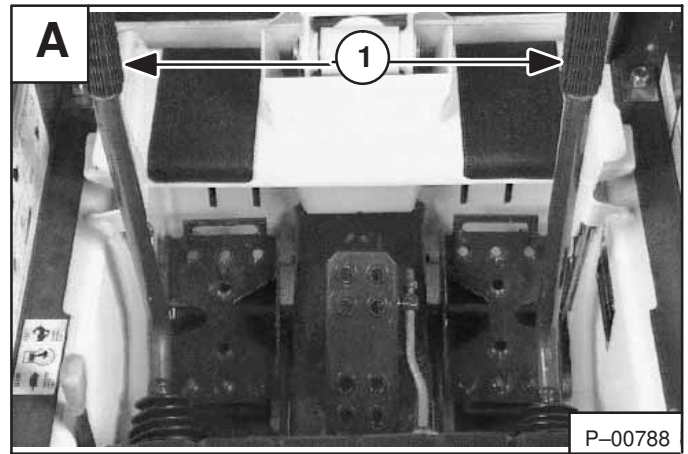
Normal Turning: Move one lever farther forward than the other.

Fast Turning (Pivot Spin): Push one lever forward and pull the other lever backward.

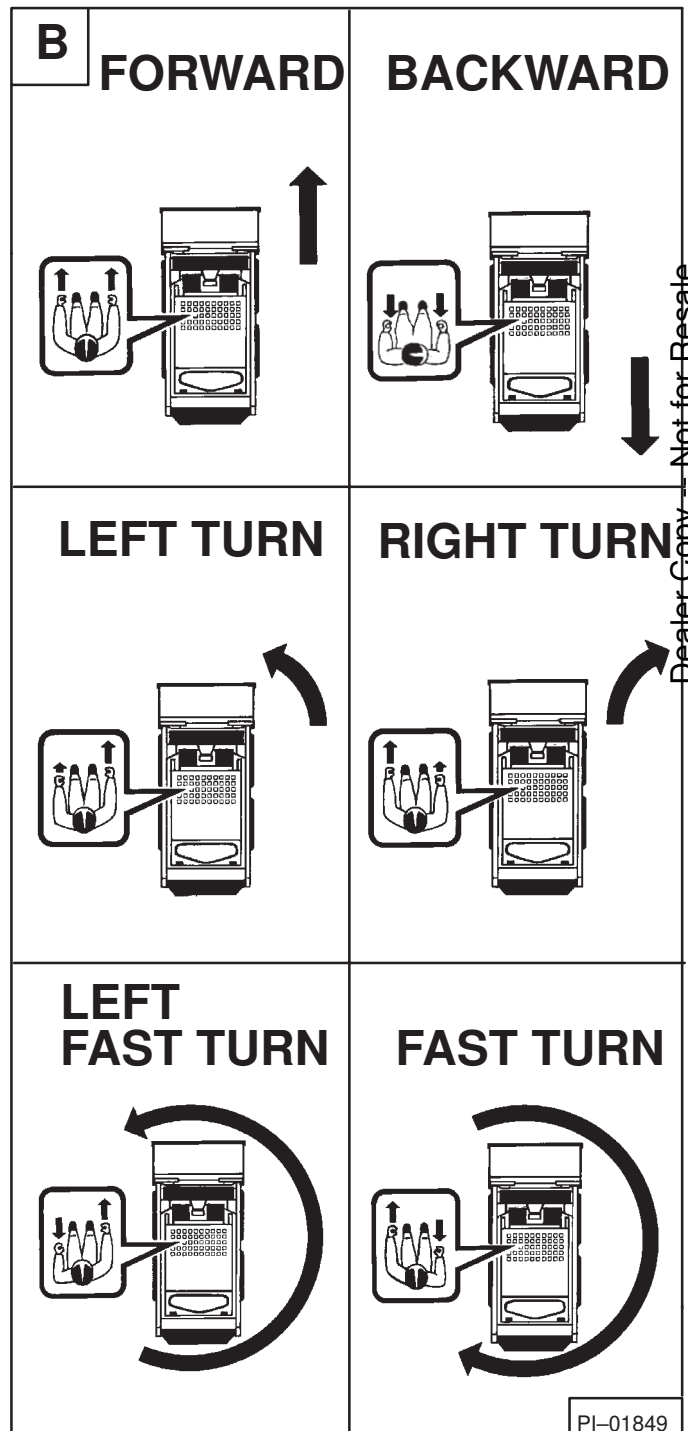
For slow travel speed, push the levers forward only a small amount.

For maximum pushing force, push the levers forward only a small amount with the engine at full RPM.

To increase the travel speed, push the levers farther forward.



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ATTACHMENTS 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.

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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 boom or to the Bob-Tach (Optional).

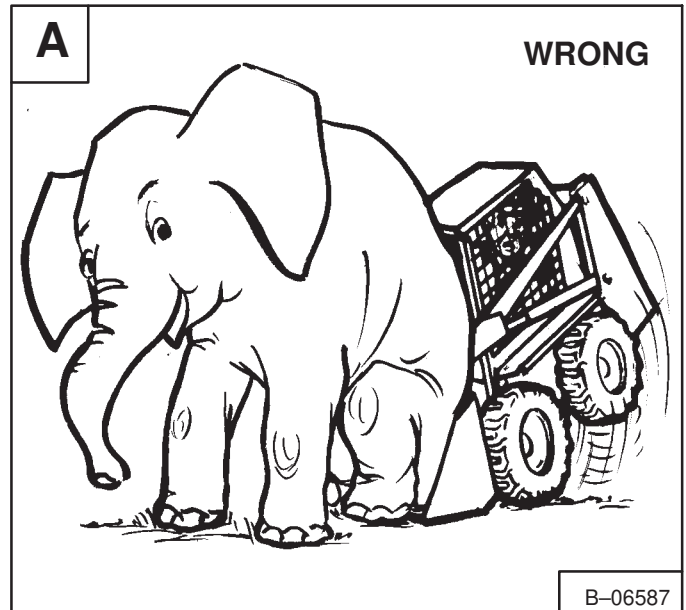
The Rated Operating Capacity for this loader is shown on a label in the operator cab. (Also see the Specifications section, Page 75.)

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.



WARNING

AVOID INJURY OR DEATH

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

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**PREVENTIVE
MAINTENANCE**

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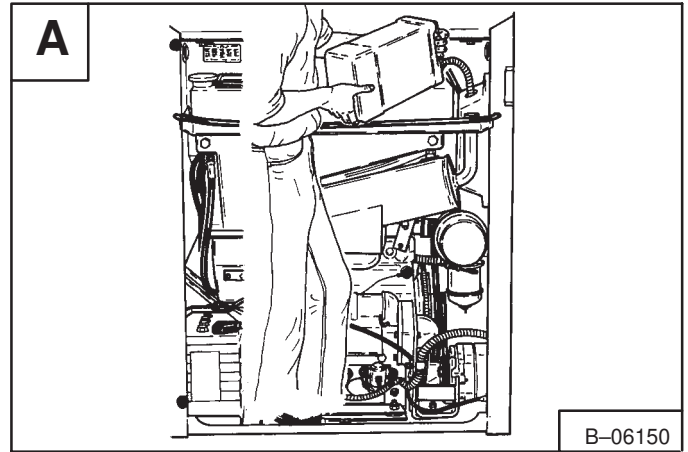
COOLANT SYSTEM

Checking The Coolant Level

The cooling system recovery tank is located on the right upright in the engine compartment [A].

Check the cooling system every day to prevent over-heating, loss of performance or engine damage.

Check the coolant level, when the engine is cool. The recovery tank must be 1/3 full. Add coolant to the recovery tank when the coolant level is low [A].



WARNING

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

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Check and clean the loader upright frame (both sides) as needed.

Removing The Coolant

WARNING

Do not remove radiator cap when the engine is hot. You can be seriously burned.

W-2070-1285

The coolant drain valve is on the front side of the engine block [B].

To remove the coolant from the cooling system, use the following procedure:

Raise the operator cab. (See Page 29 for the correct procedure.)

Connect a hose or a funnel to the valve to keep the coolant from getting into the engine compartment.

Remove the radiator cap [C].

Turn the valve lever so the lever is toward the outlet of the valve [D].

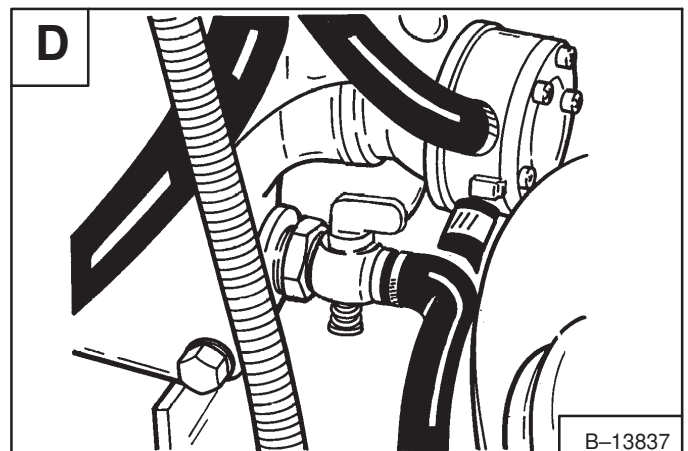
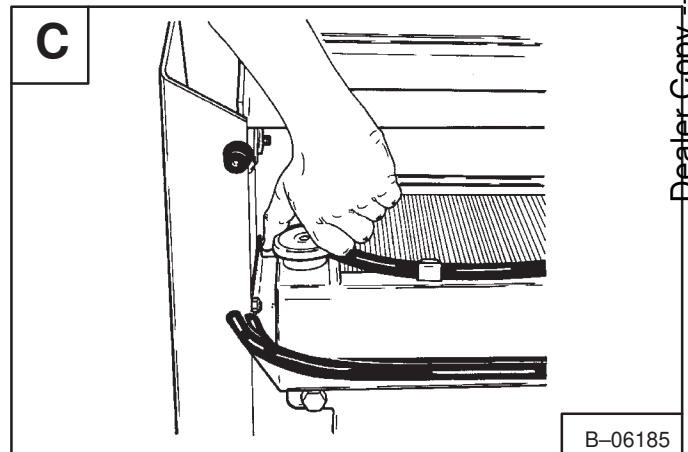
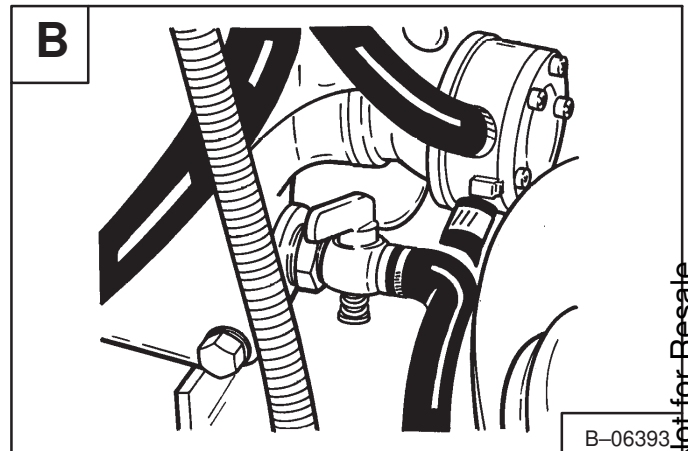
To fill the coolant system, use the following procedure:

Close the drain valve [B].

Fill the radiator with pre-mixed 50% anti-freeze and 50% water.

Install the radiator cap.

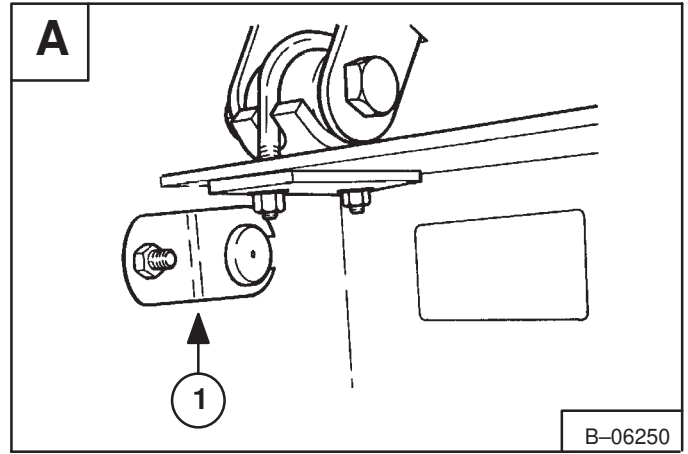
Fill the coolant recovery tank to the 1/3 mark.



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PIVOT PINS

All pivot pins, lift arms, Bob-Tach and cylinders have a large pin held in position with lockbolts (Item 1) [A]. Check that the lockbolts are tightened to 8–10 ft.-lbs. (11–13 Nm) torque. Do Not overtighten.



BRAKE PEDAL ADJUSTMENT

! WARNING

AVOID INJURY OR DEATH

Before you leave the operator's seat:

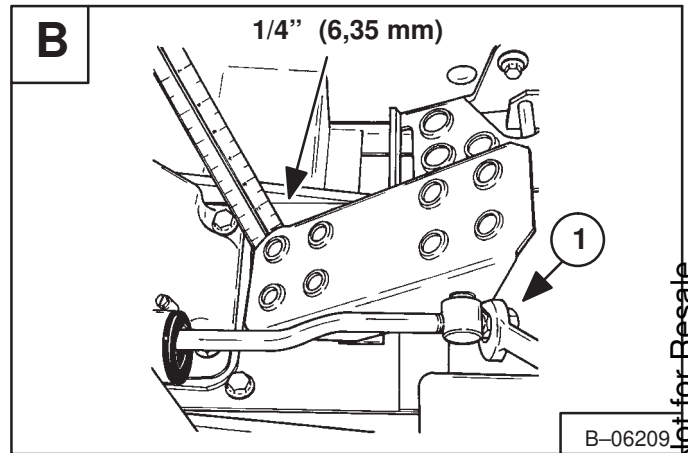
- Lower the lift arms, put the attachment flat on the ground.
- Stop the engine.
- Engage the parking brake.
- Raise seat bar, move pedals until both locked.

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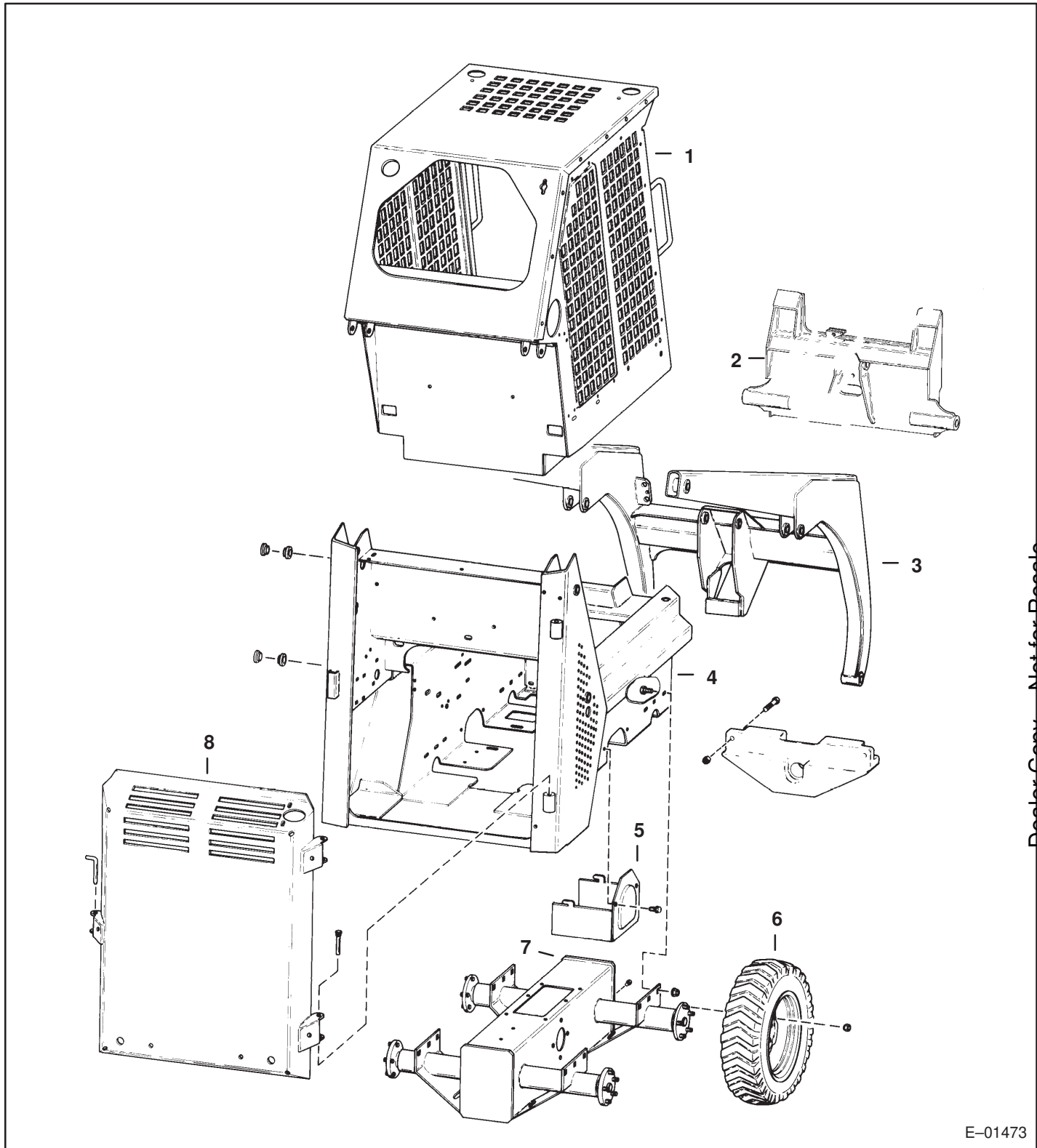
To adjust the parking brake, use the following procedure: There must be 1/4 inch (6,35 mm) of movement under the bottom edge (heel) of the brake pedal [B].

Turn the nut on the end of the linkage rod (Item 1) [B]. The brake pucks must make contact with the brake discs when the pedal is moved 1/4 inch (6,35 mm), but not fully engaged.

NOTE: If the parking brake is too loose after adjustment is done, the loader must be returned to the dealer for further adjustment.



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MAIN FRAME

Ref.	Description	Ref.	Description
1.	ROPS Guard	5.	Cover
2.	Bob-Tach (Optional)	6.	Wheel & Tire
3.	Lift Arms	7.	Chaincase
4.	Main Frame	8.	Rear Door

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**MACHINE SIGN
TRANSLATIONS**

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