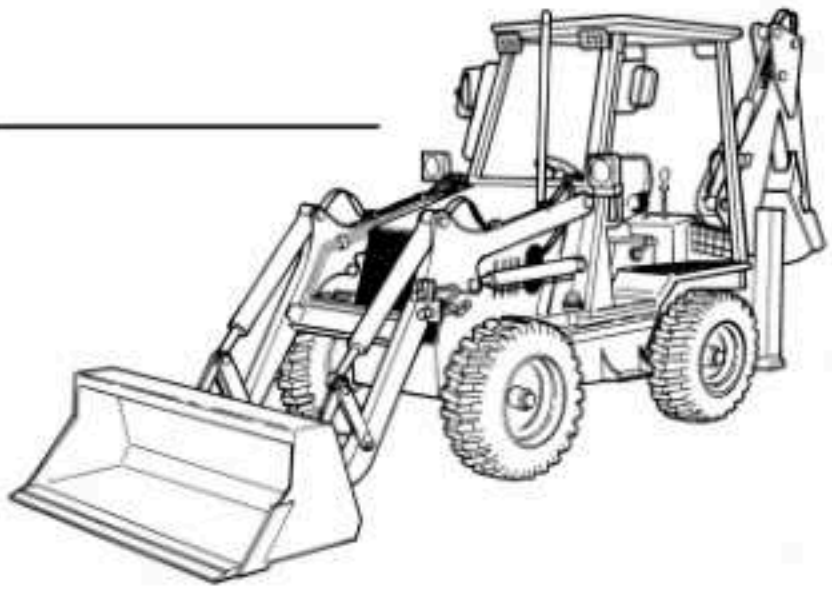
BL-275

B Series

Ingersoll-Rand

Operation & Maintenance Manual

S/N 572411001 & Above



6902655 (9-03) Revised (2-04) (2)

Printed in U.S.A.

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REFERENCE INFORMATION

Write the correct information for YOUR Ingersoll-Rand Loader Backhoe in the spaces below. Always use these numbers when referring to your Ingersoll-Rand Loader Backhoe.

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.

Loader Backhoe Serial Number _____

Engine Serial Number _____

NOTES:

_____

_____

_____

YOUR Ingersoll-Rand® DEALER:

_____

ADDRESS:

_____

PHONE:

_____

Ingersoll-Rand Company
Infratructure Sector
312 Ingersoll Drive
Shippensburg, PA 17257

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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 Ingersoll-Rand Loader Backhoe. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR LOADER BACKHOE. If you have any questions, see your Ingersoll-Rand dealer.

This manual may illustrate loader backhoes with additional options and accessories not installed on your loader backhoe.

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REGULAR MAINTENANCE ITEMS

	ENGINE OIL FILTER 6657635		BATTERY See Your Bobcat Dealer
	FUEL FILTER 6640801		FLUID, Hydraulic/Hydrostatic (5 Gallons) 6563328 (2-2.5 Gallon Containers)
	AIR FILTER 6682494		
	HYDROSTATIC FILTER 6961187		

MOTOR OIL

6667299 SAE 15W40 CE/SG (12 QTS.)	6724558 SAE 15W40 CE/SG (1 GAL.)	6674204 SAE 15W40 CE/SG (2.5 GAL.)
6657301 SAE 10W30 CE/SG (12 QTS.)	6724557 SAE 10W30 CE/SG (1 GAL.)	6674205 SAE 10W30 CE/SG (2.5 GAL.)
6657303 SAE 30W CE/SG (12 QTS.)	6724559 SAE 30W CS/SG (1 GAL.)	6674206 SAE 30W CS/SG (2.5 GAL.)

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BACKHOE HYDRAULIC CONTROLS

Backhoe Control Levers

Learn the function of the control levers before you start the engine to begin operation **[Figure OI-24]**.

LEVER NO. 1 **[Figure OI-24]** - Boom and Swing.

To lower the boom, push the lever forward (Item 2) **[Figure OI-24]**.

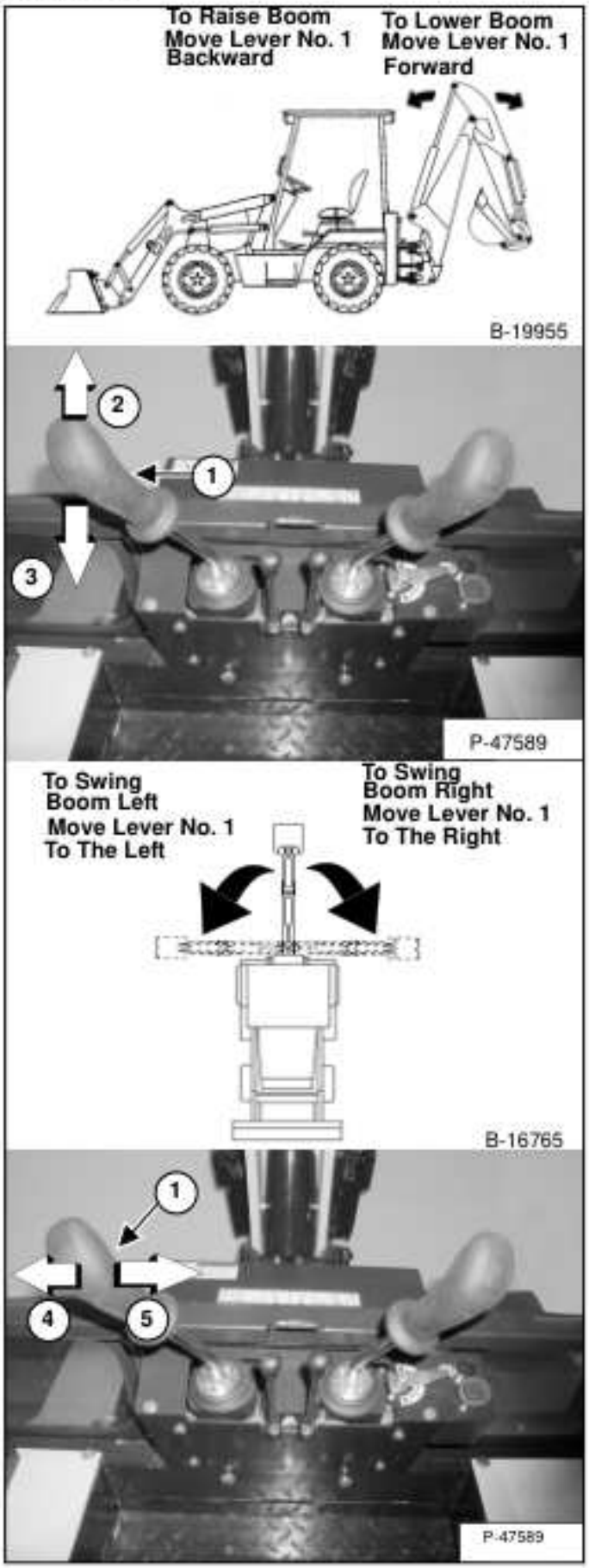
To raise the boom, pull the lever backward (Item 3) **[Figure OI-24]**.

To swing the boom to the left, move the lever to the left (Item 4) **[Figure OI-24]**.

To swing the boom to the right, move the lever to the right (Item 5) **[Figure OI-24]**.

NOTE: If you release the boom and swing control lever, the lever will return to the neutral position.

Figure OI-24



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TRANSPORTING THE LOADER BACKHOE

⚠ 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

Be sure the transport and towing vehicles are of adequate size and capacity. (See SPECIFICATIONS Page SPEC-5 for weight of the loader backhoe.)

Figure OI-95



The rear of the trailer must be blocked or supported (Item 1) **[Figure OI-95]** when loading or unloading the loader backhoe to prevent the front end of the trailer from raising up.

Use the following procedure to secure the loader backhoe to the transport vehicle to prevent the loader backhoe from moving during sudden stops or when going up or down slopes.

- Lower the loader bucket.
- Lower the backhoe bucket.
- Stop the engine.
- Engage the parking brake.

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Safe Operation Is The Operator's Responsibility

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

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

The Ingersoll-Rand Backhoe Loader and attachment must be in good operating condition before use.

Check all of the items on the Service Schedule Decal under the 8-10 hour column or as shown in the Operation & Maintenance Manual.

Safe Operation Needs A Qualified Operator

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

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Ingersoll-Rand 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 Ingersoll-Rand dealer before the product is delivered.
- The new operator must start in an area without bystanders and use all the controls until he or she 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 Ingersoll-Rand dealer in English and Spanish. They provide information for safe and efficient equipment operation. Safety videos are also available.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the Rated Operating Capacity (R.O.C.) of the loader or the Rated Lift Capacity of the backhoe. 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 or she 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 **Before Operation** Section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses or hearing protection are required for some work. See your Ingersoll-Rand dealer about available Safety Equipment.

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