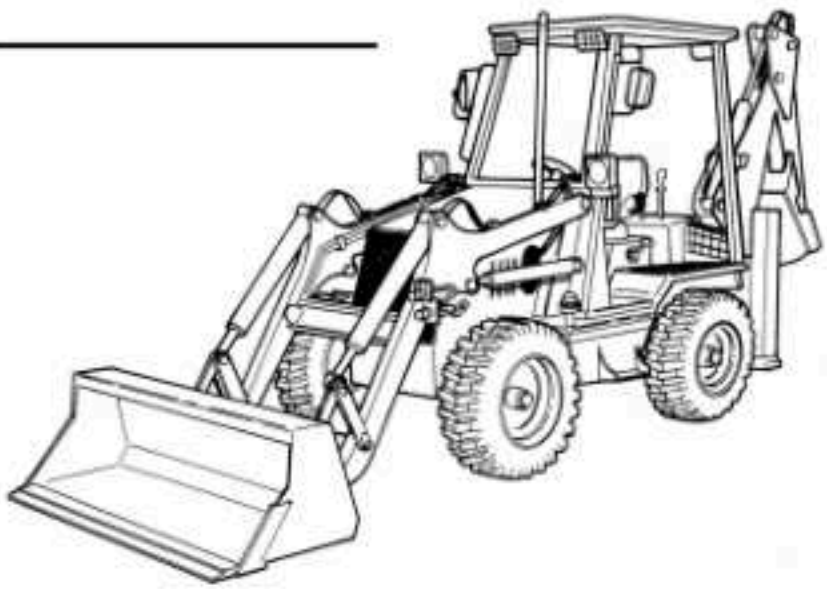
EF-2

EARTHFORCE

Operation & Maintenance Manual



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REFERENCE INFORMATION

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

Loader Backhoe Serial Number _____

_____

Engine Serial Number _____

_____

NOTES:

_____

_____

_____

YOUR DEALER:

_____

ADDRESS:

_____

PHONE:

_____

For Parts and Attachment Information Contact:

IR Remarketing
J.Huysmanlaan 59
GB-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 EarthForce Loader Backhoe. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR LOADER BACKHOE.

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

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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-31]**.

LEVER NO. 1 **[Figure OI-31]** - Boom and Swing.

To lower the boom, push the lever forward (Item 2) **[Figure OI-31]**.

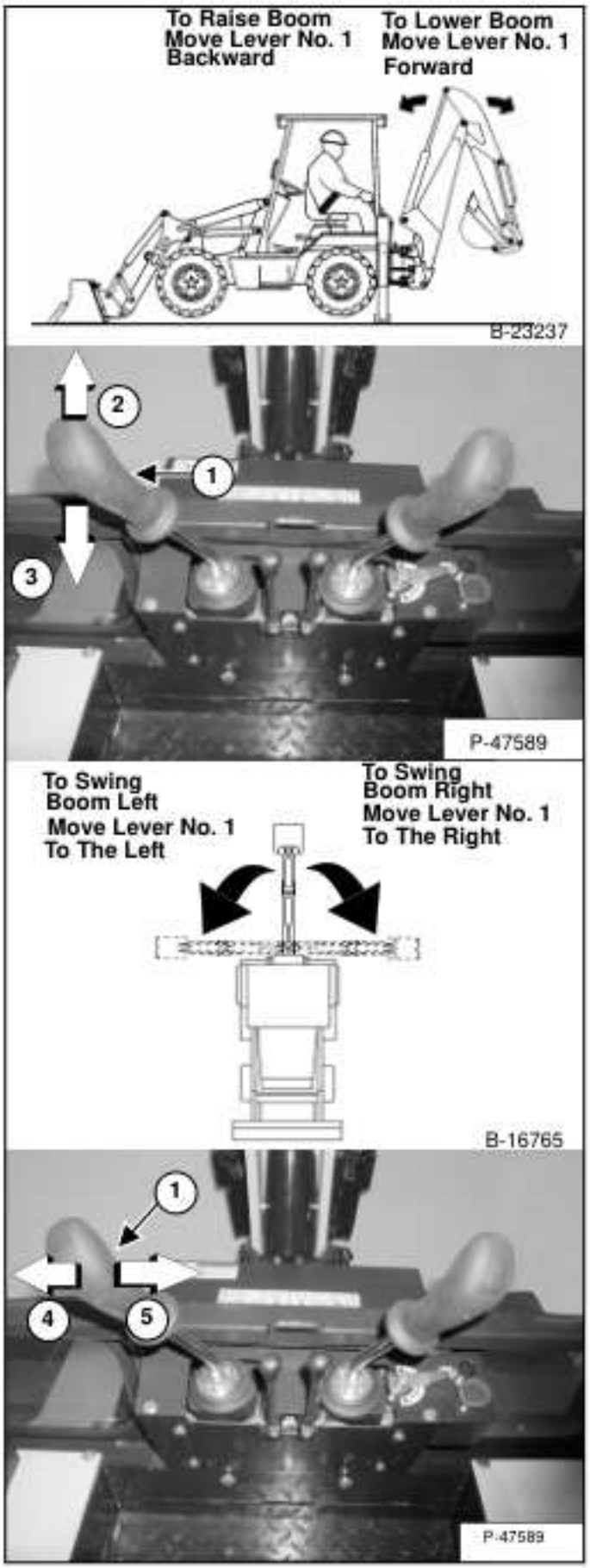
To raise the boom, pull the lever backward (Item 3) **[Figure OI-31]**.

To swing the boom to the left, move the lever to the left (Item 4) **[Figure OI-31]**.

To swing the boom to the right, move the lever to the right (Item 5) **[Figure OI-31]**.

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

Figure OI-31



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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.

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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-104



The rear of the trailer must be blocked or supported (Item 1) **[Figure OI-104]** 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 (red button and lever).

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LUBRICATING THE LOADER BACKHOE

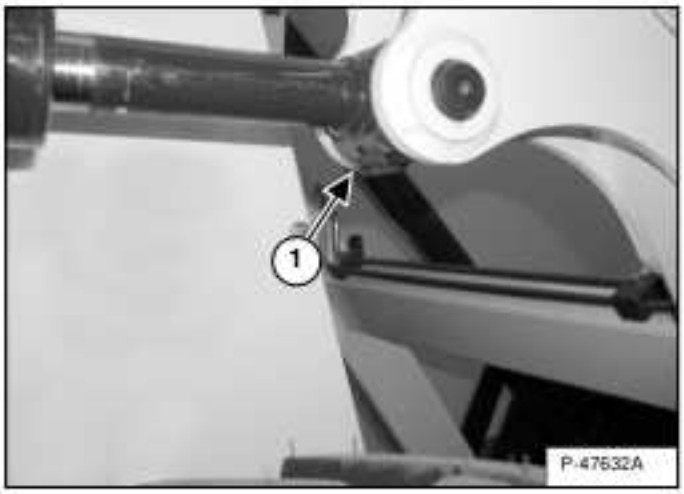
Lubricate the loader backhoe as specified in the SERVICE SCHEDULE Page PM-5 for the best performance of the loader.

Record the operating hours each time you lubricate the loader backhoe.

Always use a good quality lithium based multi-purpose grease when you lubricate the loader backhoe. Apply the lubricant until extra grease shows.

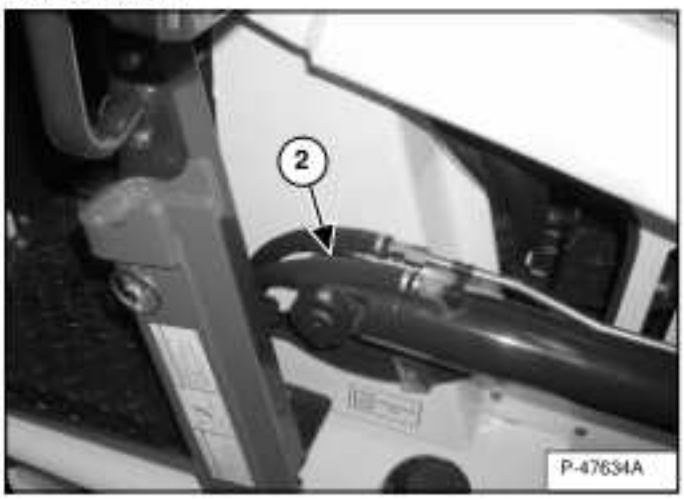
Lubricate the following locations on the loader backhoe.

Figure PM-69



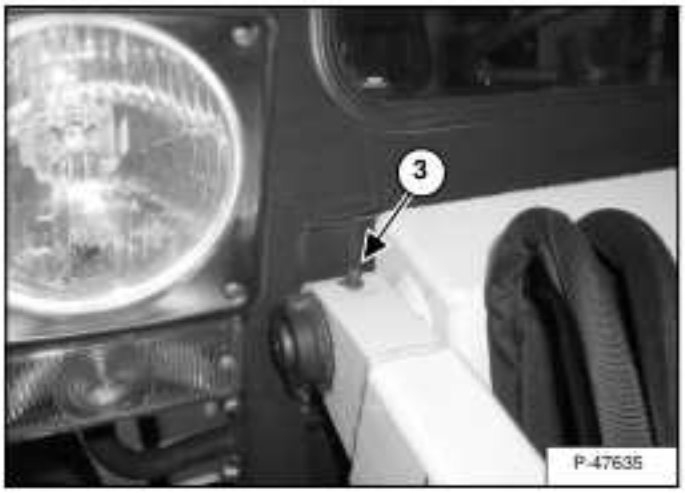
1. Rod End Lift Cylinder (Both sides) **[Figure PM-69]**.

Figure PM-70



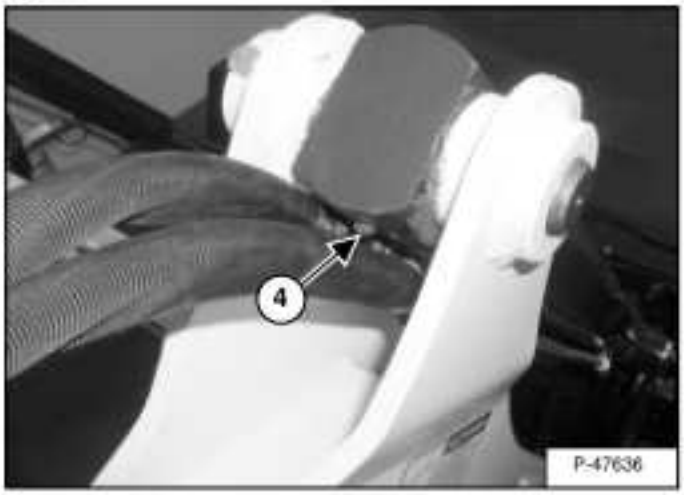
2. Base End Lift Cylinder (Both sides) **[Figure PM-70]**.

Figure PM-71



3. Lift Arm Pivot Pin (Both sides) **[Figure PM-71]**.

Figure PM-72



4. Base End Tilt Cylinder (Both sides) **[Figure PM-72]**.

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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.

IMPORTANT

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

WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

The EarthForce Loader Backhoe 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 EarthForce include the 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 EarthForce 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.

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 to locate any underground lines before digging.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses or hearing protection are required for some work.

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