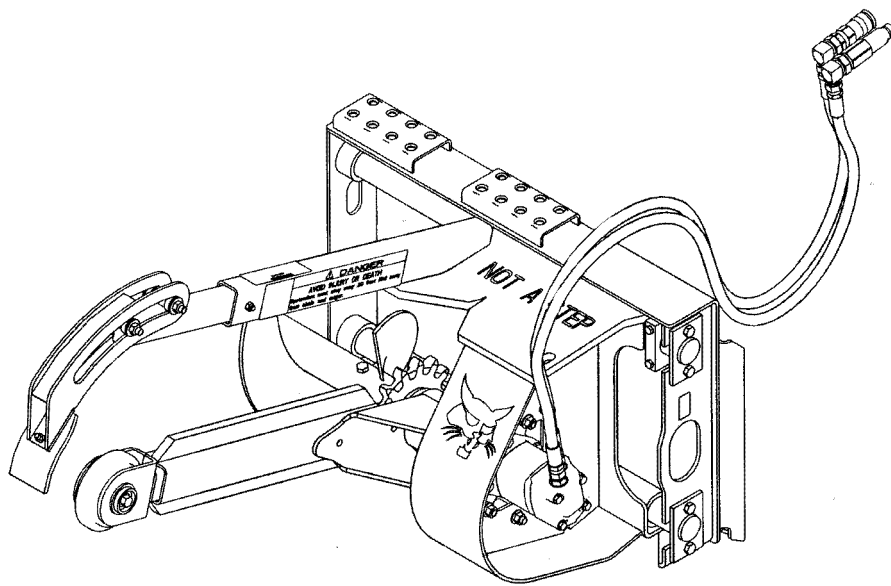




Bobcat®

Operation & Maintenance Manual



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Trencher

(LT112 Trencher) S/N 045200101 & Above
(MX112 Trencher) S/N 045100101 & Above
(LT113 Trencher) S/N 233800101 & Above
(LT113 Trencher) S/N B3WV00101 & Above



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REFERENCE INFORMATION

Write the correct information for YOUR Bobcat attachment in the spaces below. Always use these numbers when referring to your Bobcat attachment.

Attachment Serial Number _____

NOTES:

YOUR BOBCAT DEALER:

ADDRESS:

PHONE:

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128
UNITED STATES OF AMERICA

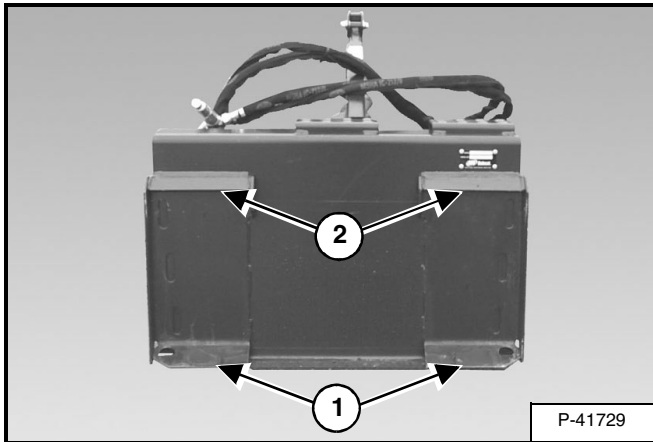
Bobcat Company Europe
Drève Richelle 167
B-1410 WATERLOO
BELGIUM

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DAILY INSPECTION

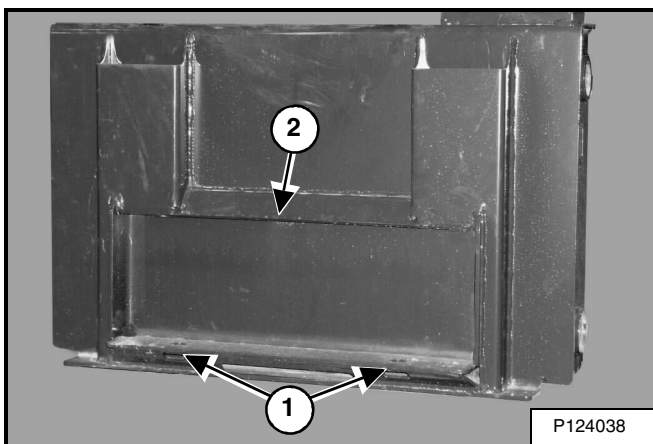
Attachment Mounting Frame

Figure 4



Bob-Tach: Inspect the Bob-Tach wedge mounts (Item 1), mounting flange (Item 2) **[Figure 4]** and all welds on the trencher for wear and damage each time the trencher is removed from the machine.

Figure 5



Common Industry Interface: Inspect the Common Industry Interface mounting holes (Item 1), mounting flange (Item 2) **[Figure 5]** and all welds on the trencher for wear and damage each time the trencher is removed from the machine.

Frequently inspect the trencher to ensure that all components are secure and that all bolts and nuts are thoroughly tightened.

DAILY INSPECTION (CONT'D)

Bob-Tach

Hand Lever Bob-Tach



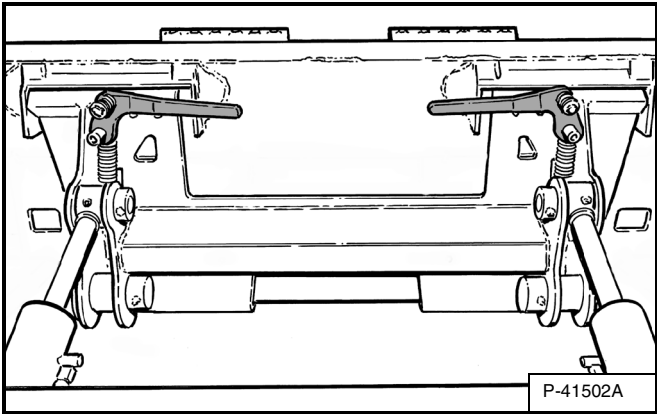
WARNING

AVOID INJURY OR DEATH

The Bob-Tach wedges must extend through the holes in the attachment mounting frame. Levers must be fully down and locked. Failure to secure wedges can allow attachment to come off.

W-2715-0208

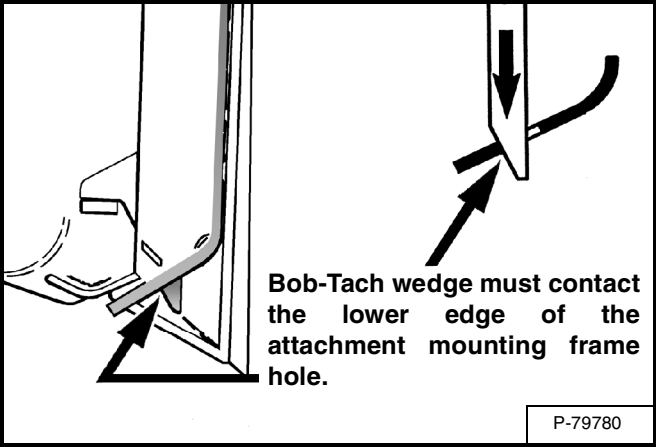
Figure 6



Push down on the Bob-Tach levers until they are fully engaged in the locked position [Figure 6] (wedges fully extended through the attachment mounting frame holes).

The levers and wedges must move freely [Figure 6].

Figure 7



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 7].

NOTE: If the wedge does not contact the lower edge of the hole, the attachment will be loose and can come off the Bob-Tach.

Inspect the mounting frame on the machine. (See the machine's Operation & Maintenance Manual for inspecting the Bob-Tach). Replace any parts that are damaged, bent or missing. Keep all fasteners tight. Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges. (See the machine's Operation & Maintenance Manual for the correct procedure.)

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DAILY INSPECTION (CONT'D)

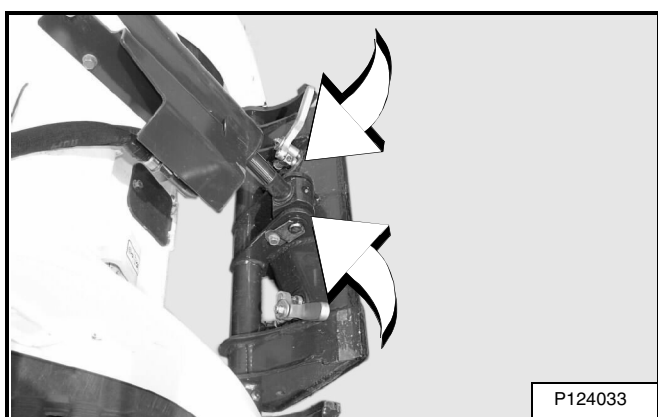
Common Industry Interface

! WARNING

The Common Industry Interface locking pins must extend through the holes in attachment frame. Levers must be fully down and locked. Failure to secure the locking pins can allow attachment to come off and cause serious injury or death.

W-2996-1015

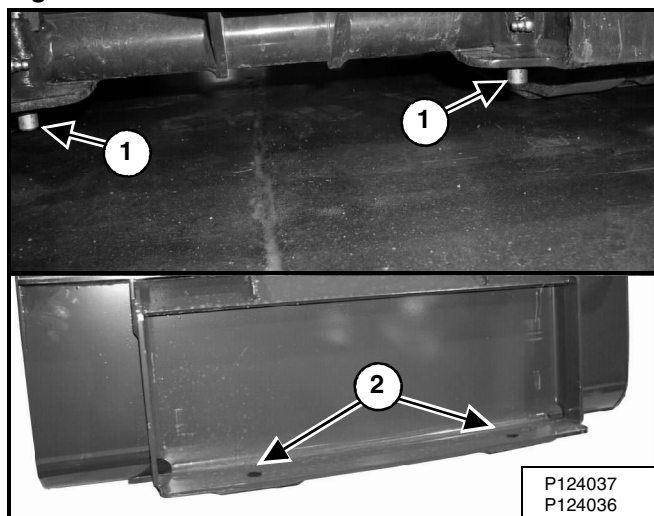
Figure 8



Push down on the locking levers until they are fully engaged in the locked position **[Figure 8]** (pins fully extended through the attachment mounting frame holes).

The levers and pins must move freely **[Figure 8]**.

Figure 9



The pins (Item 1) must extend through the holes in the attachment mounting frame (Item 2), **[Figure 9]** securely fastening the attachment to the interface.

Inspect the mounting frame on the machine. (See the machine's Operation & Maintenance Manual for inspecting the Common Industry Interface). Replace any parts that are damaged, bent or missing. Keep all fasteners tight. Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

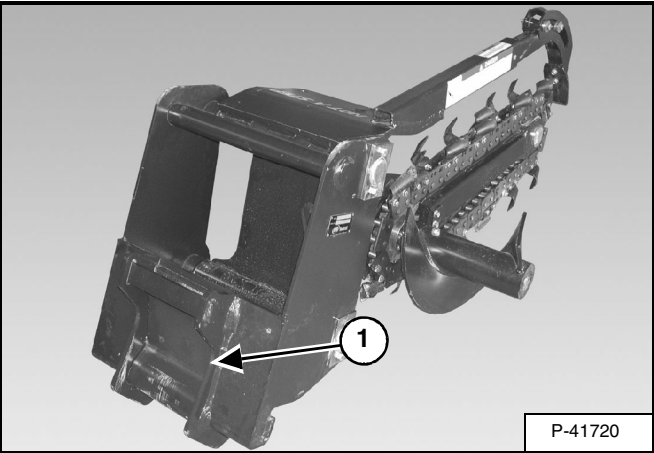
Lubricate the locking pins. (See the machine's Operation & Maintenance Manual for the correct procedure.)

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DAILY INSPECTION (CONT'D)

X-Change™

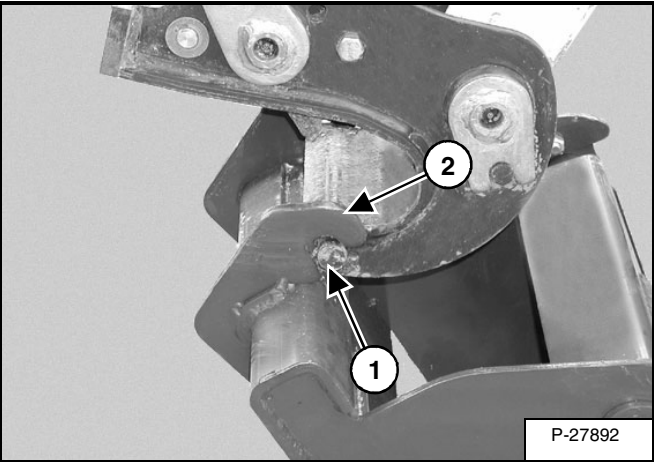
Figure 10



Inspect the X-Change mount (Item 1) [Figure 10] and all welds on the trencher for wear and damage each time the trencher is removed from the machine.

Frequently inspect the trencher to ensure that all components are secure and that all bolts and nuts are thoroughly tightened.

Figure 11

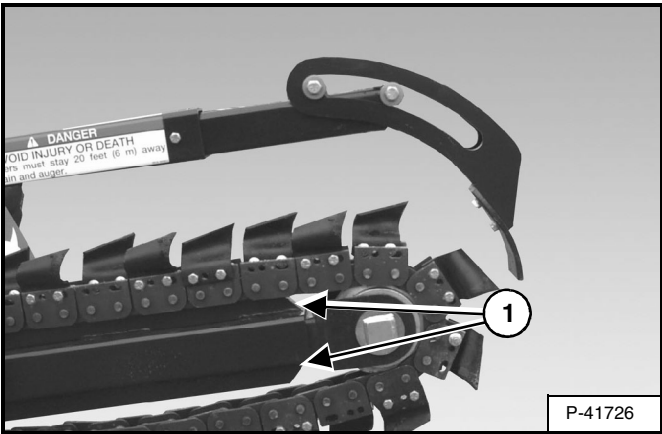


Inspect the X-Change for wear or damage. Inspect the X-Change pins (Item 1) and hooks (Item 2) [Figure 11] (on the attachment) and all hardware for wear or damage.

Repair or replace damaged parts.

Chain Guide

Figure 12



Inspect the top and bottom chain guide (Item 1) [Figure 12] for wear and damage.

OPERATING PROCEDURE WITH LOADERS

Approved Loader Models And Requirements

Figure 13

LOADER MODEL	LT112	LT113
463	X	X
S70	X	X

X = Approved

The chart [Figure 13] shows the approved trencher models for each loader model.

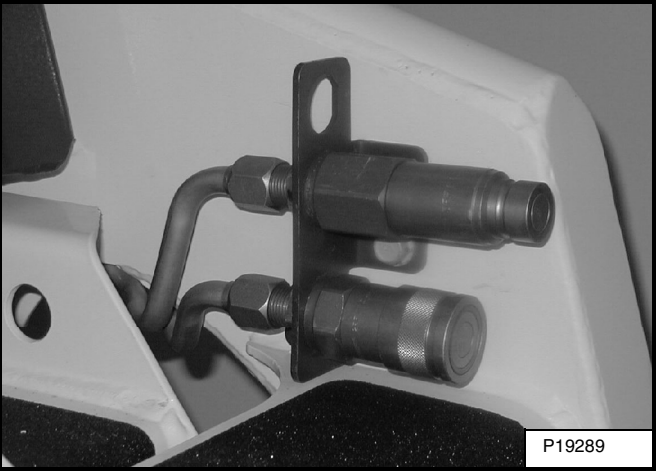
The warranty is void if this attachment is used on a non-approved carrier. See your Bobcat dealer for an updated list of approved carriers.

**WARNING**

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

W-2662-0108

Figure 14



The loader must be equipped with front auxiliary hydraulics [Figure 14] for proper operation of the trencher. See your Bobcat dealer for available kits.

The warranty is void if this attachment is used on a non-approved carrier. See your Bobcat dealer for an updated list of approved carriers.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Entering And Exiting The Loader



WARNING

AVOID INJURY OR DEATH

When operating the machine:

- Keep the seat belt fastened snugly.
- The seat bar must be lowered.
- Keep your feet on the pedal controls or footrests and hands on the controls.

W-2261-0909

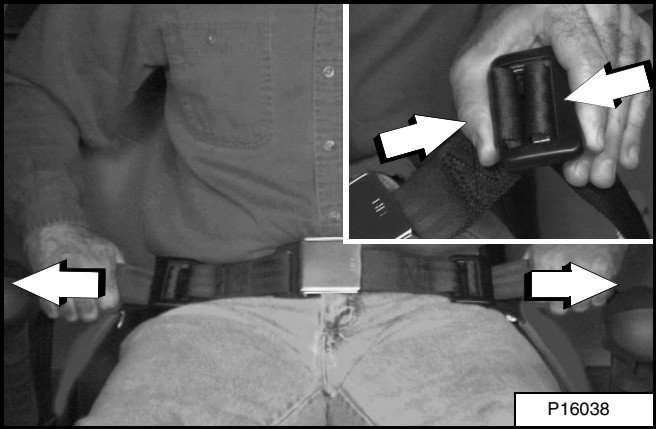
Entering

Figure 15



Use the attachment steps, grab handles and safety treads (on the loader lift arms and frame) to get on and off the loader [Figure 15].

Figure 16



Enter the loader. Fasten the seat belt and adjust it so the buckle is centered between your hips [Figure 16].

Figure 17



Lower the seat bar and engage the parking brake [Figure 17].

Put the foot pedals or hand controls in NEUTRAL position.

NOTE: Keep your hands on the steering levers and your feet on the foot pedals (or footrests) while operating the loader.

See the loader's Operation & Maintenance Manual and Operator's Handbook for detailed information on operating the loader.

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OPERATING PROCEDURE WITH LOADERS (CONT'D)

Entering And Exiting The Loader (Cont'd)

Exiting

Lower the lift arms and put the attachment flat on the ground.

Stop the engine and engage the parking brake.

Lift the seat bar and make sure the lift and tilt functions are deactivated.

Remove the key.

Exit the loader.



WARNING

AVOID INJURY OR DEATH

Before you leave the operator's position:

- Lower the lift arms, put the attachment flat on the ground.
- Stop the engine and engage the parking brake.
- Move all pedals, handles, joysticks, and other controls until they are **LOCKED** or in the **NEUTRAL** position.

SEE THE MACHINE OPERATION & MAINTENANCE MANUAL FOR MORE INFORMATION.

W-2722-0208

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OPERATING PROCEDURE WITH LOADERS (CONT'D)

Installation

Hand Lever Bob-Tach

NOTE: The illustrations and instructions provided explain how to install a bucket attachment on to a loader. Follow these same instructions if you are installing different attachments such as a grapple, tiller, combo bucket, etc.

The attachment mounting frame for the attachment has a top flange that is designed to receive the top edge of the Bob-Tach and the lower part of the frame is designed to receive the Bob-Tach wedges.

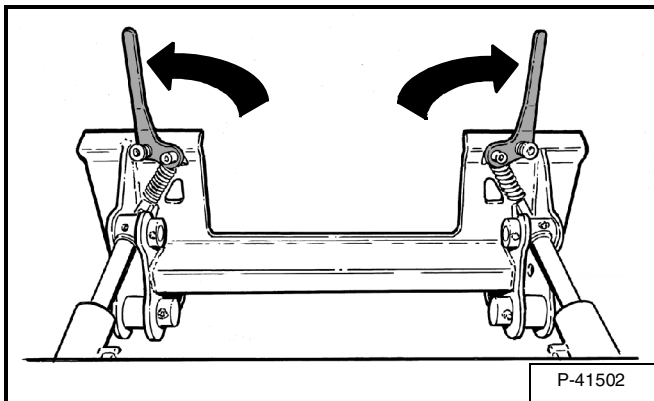
! WARNING

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

W-2744-0608

Always inspect the loader's Bob-Tach and the attachment mounting frame before installation. See the loader's Operation & Maintenance Manual. (See DAILY INSPECTION on Page 23.)

Figure 18

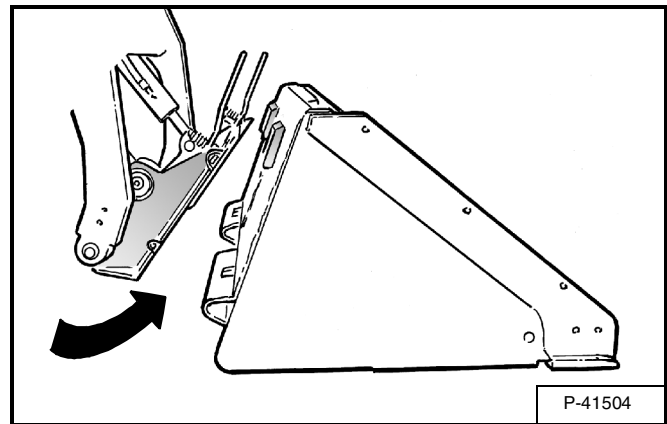


Pull the Bob-Tach levers up until they are fully raised (wedges fully raised) [Figure 18].

Enter the loader. (See Entering And Exiting The Loader on Page 28.)

Start the engine, press the PRESS TO OPERATE LOADER button and release the parking brake.

Figure 19

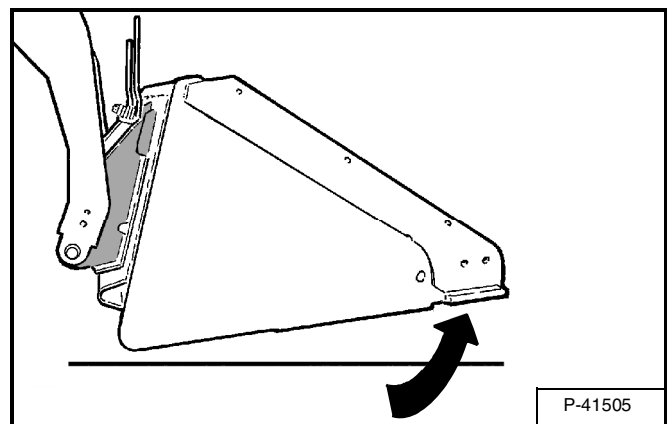


Lower the lift arms and tilt the Bob-Tach forward.

Drive the loader slowly forward until the top edge of the Bob-Tach is completely under the top flange of the attachment mounting frame [Figure 19].

NOTE: Be sure the Bob-Tach levers do not hit the attachment.

Figure 20



Tilt the Bob-Tach backward until the attachment is slightly off the ground [Figure 20]. This will cause the attachment mounting frame to fit up against the front of the Bob-Tach.

NOTE: When leaving the operator's seat to install an attachment, tilt the attachment until it is slightly off the ground.

Stop the engine and exit the loader. (See Entering And Exiting The Loader on Page 28.)