



Bobcat®

Operation & Maintenance Manual



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Angle Broom

(48) S/N 700000101 & 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

Doosan Benelux SA
Drève Richelle 167
B-1410 Waterloo
BELGIUM

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OPERATING PROCEDURE WITH LOADERS

Approved Loader Models And Requirements

Figure 7

LOADER MODEL	ANGLE BROOM
463	X
S70	X

X = Approved

The chart **[Figure 7]** lists the loader models approved for use with the angle broom.

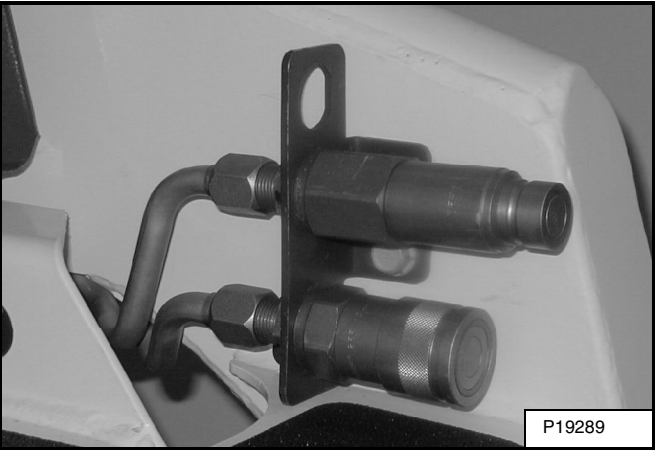
Warranty on this attachment is void if used on a non-approved carrier. See your Bobcat dealer for an updated list of approved carriers.

**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.

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Figure 8



The loader must be equipped with front auxiliary hydraulics **[Figure 8]** for proper operation of the angle broom. See your Bobcat dealer for available kits.

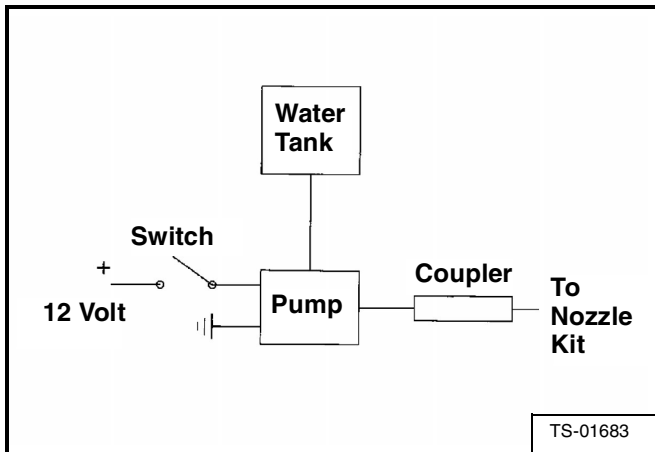
OPERATING PROCEDURE WITH LOADERS (CONT'D)

Machine / Attachment Setup

Quick-Tach Water Kits

Quick-Tach Water Kits are rear mounted on the loader and provide water through a Nozzle Kit mounted on the angle broom for reduced dust emission.

Figure 9



The illustration shows a typical arrangement and routing of the water kits, (See your Bobcat dealer) [Figure 9].

Angle Broom Spray Nozzle Kit

Order the kit from your Bobcat dealer.

Use the following procedure to install the nozzles on the angle broom:

Figure 10

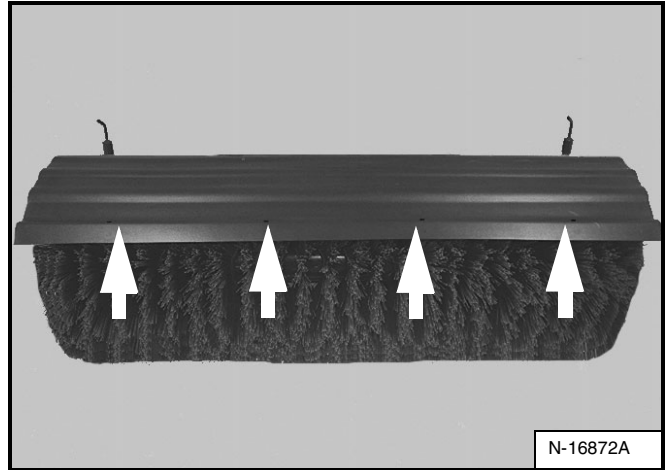
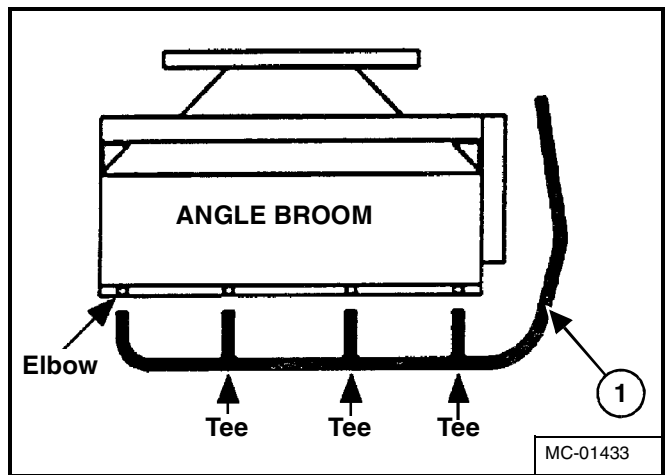


Figure 11



Install the four fittings and nozzles where shown on the angle broom [Figure 10] and [Figure 11].

NOTE: Install the nozzles so the spray is directed towards the work surface in front of the broom bristles.

Cut the hose to the correct length to fit between the fittings. Clamp the hoses in place.

Install the remaining hose (Item 1) [Figure 11] on the left nozzle tee fitting. Route the hose from the nozzle tee fitting along the angle broom hydraulic lines to the attachment control kit bracket on the loader lift arm. Cut the hose to the correct length.

Install the adapter in the hose, clamp the hose and thread the coupler to the adapter.

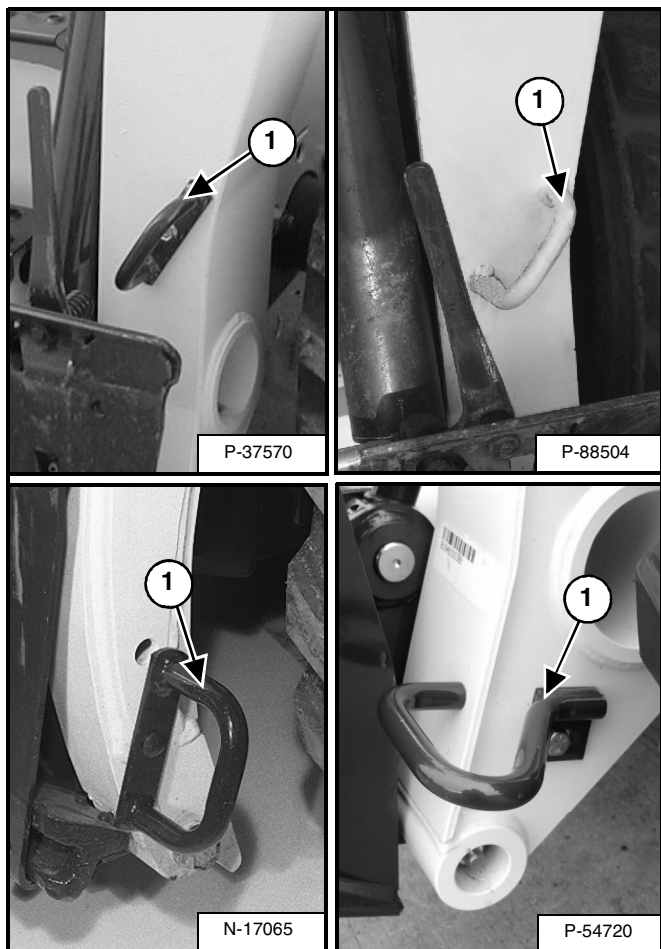
Use the nylon tie straps to secure the hose to the attachment hydraulic lines to prevent the hose from breaking or wearing against the attachment.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Machine / Attachment Setup (Cont'd)

Hose Guide Installation (Earlier Version)

Figure 12



Install the correct hose guide (Item 1) [Figure 12] on the loader.

NOTE: Hose guide styles vary between loader models. Hose guides are not included with the attachment. See your Bobcat dealer for available hose guide kits.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Entering And Exiting The Loader

NOTE: The right and left side of the loader as viewed from the operator seat.

When the angle broom is attached, always enter and exit the loader from the right side.



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.

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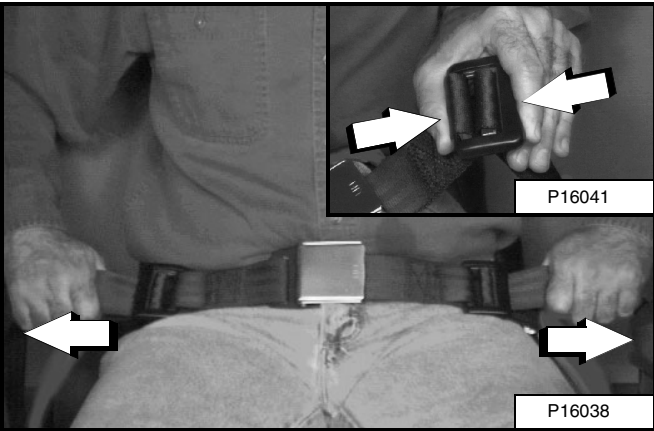
Entering

Figure 13



Use the attachment steps, grab handles (on cab) and the safety treads (on top of the loader lift arms and frame) to enter and exit the loader [Figure 13].

Figure 14



Enter the loader. Fasten the seat belt and adjust it so the buckle is centered between your hips [Figure 14].

Figure 15



Lower the seat bar and engage parking brake [Figure 15].

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.

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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.

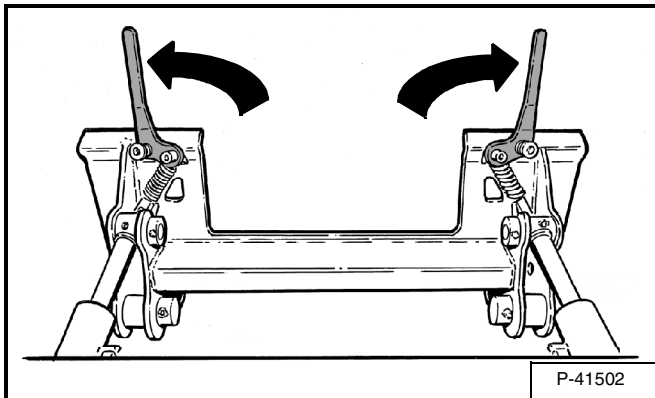
! WARNING

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

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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 21.)

Figure 16

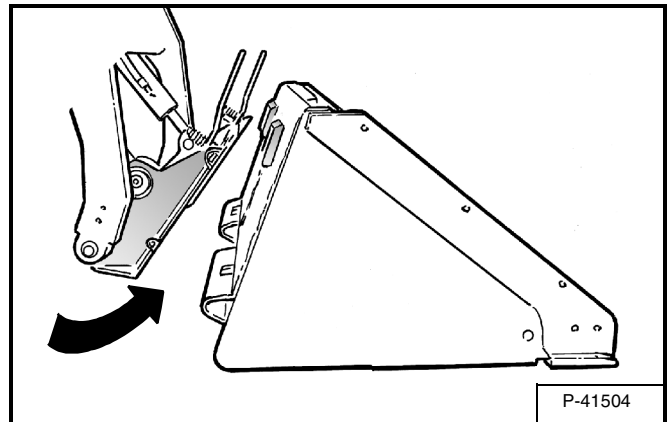


Pull the Bob-Tach levers up until they are fully raised (wedges fully raised) [Figure 16].

Enter the loader. (See Entering And Exiting The Loader on Page 26.)

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

Figure 17

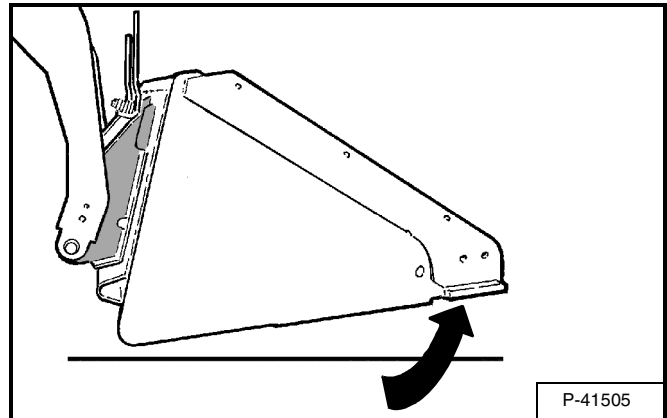


Lower the lift arms and tilt the Bob-Tach forward.

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 17].

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

Figure 18



Tilt the Bob-Tach backward until the attachment is slightly off the ground [Figure 18]. 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 26.)

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Installation (Cont'd)

Hand Lever Bob-Tach (Cont'd)

WARNING

AVOID INJURY OR DEATH

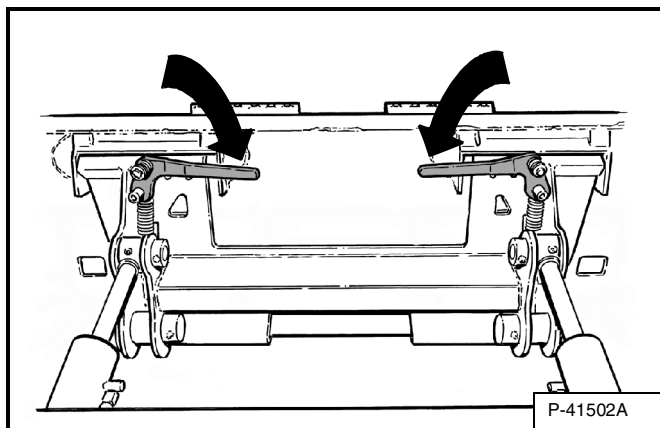
Before you leave the operator's seat:

- Lower the lift arms and put the attachment flat on the ground.
- Stop the engine.
- Engage the parking brake.
- Raise the seat bar.
- Move all controls to the **NEUTRAL / LOCKED** position to make sure the lift, tilt and traction drive functions are deactivated.

The seat bar system must deactivate these functions when the seat bar is up. See your Bobcat dealer for service if controls do not deactivate.

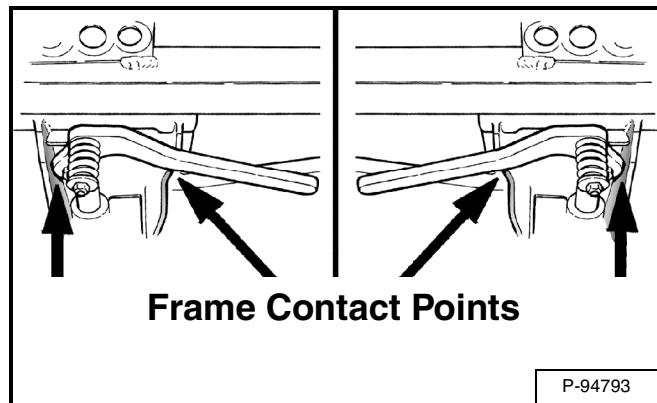
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Figure 19



Push down on the Bob-Tach levers until they are fully engaged in the locked position [Figure 19] (wedges fully extended through the attachment mounting frame holes).

Figure 20



Both levers must contact the frame as shown when locked [Figure 20].

If both levers do not engage in the locked position, see your Bobcat dealer for maintenance.

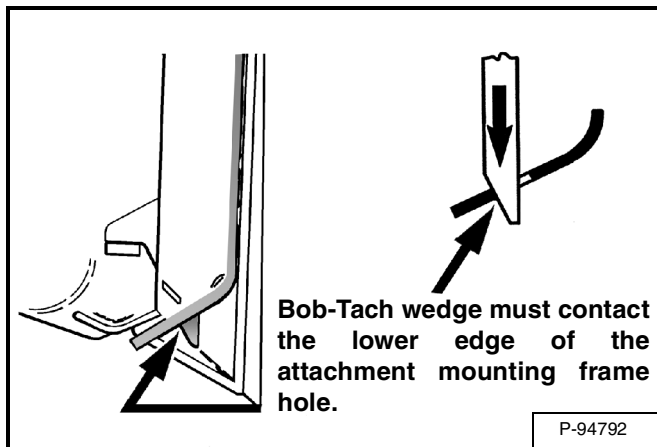
WARNING

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.

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Figure 21



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 21].

Connect auxiliary hydraulic hoses. (See Hydraulic Quick Couplers on Page 32.)

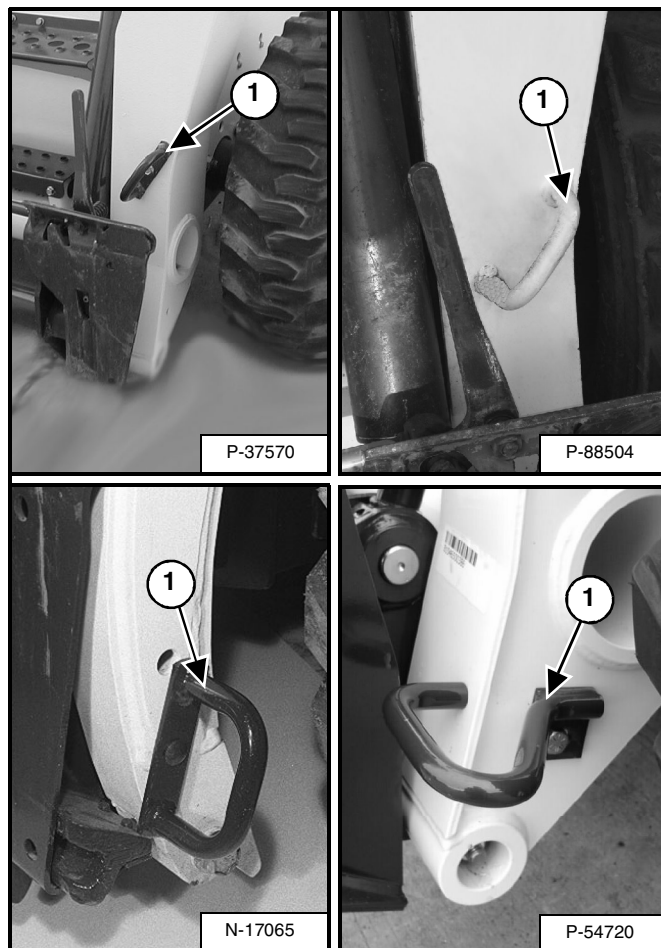
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OPERATING PROCEDURE WITH LOADERS (CONT'D)

Installation (Cont'd)

Hose Routing (Earlier Version)

Figure 22



Route hoses through hose guide (Item 1) [Figure 22] and connect quick couplers to the loader. (See Hydraulic Quick Couplers on Page 32.)

NOTE: Hose guide styles vary between loader models. Hose guides are not included with the attachment. See your Bobcat dealer for available hose guide kits.

NOTE: Check that the attachment hydraulic hoses are not twisted or contacting any moving parts of the attachment or loader.