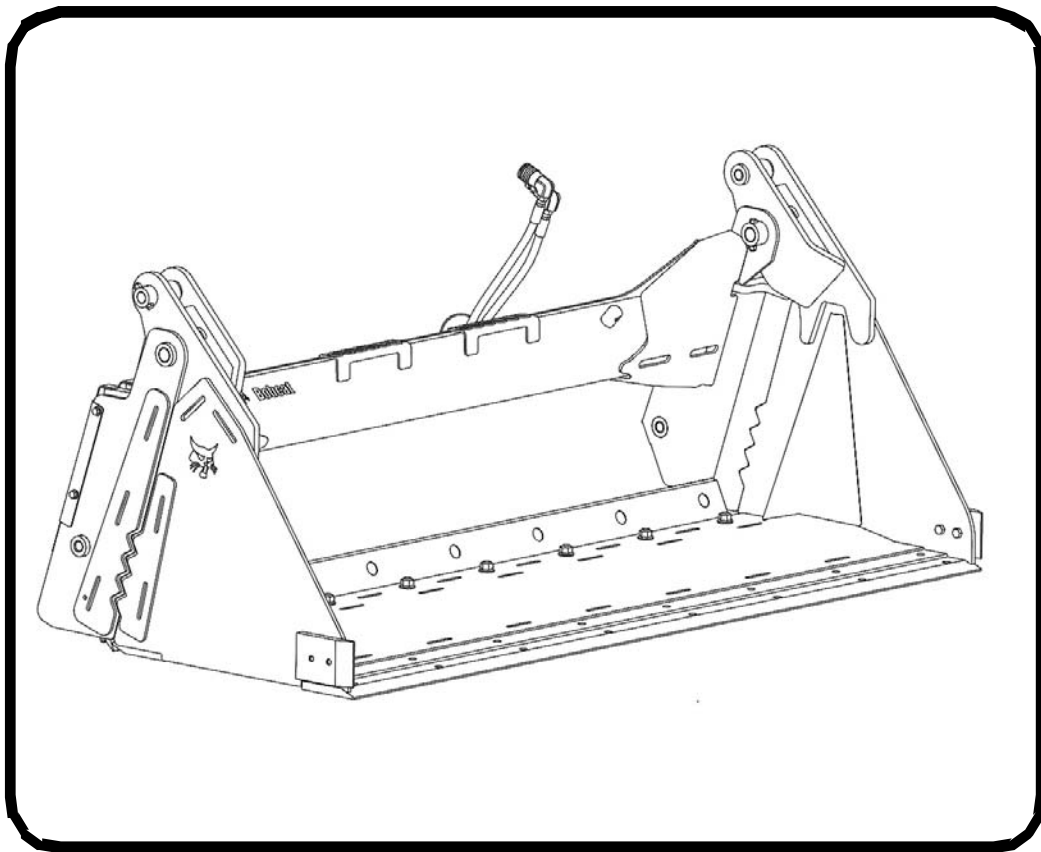




Bobcat®

Operation & Maintenance Manual Combination Bucket

(Combo Bkt 62) S/N AEMY00101 & Above
(Combo Bkt 68) S/N AEMZ00101 & Above
(Combo Bkt 74) S/N AEN000101 & Above
(Combo Bkt 80) S/N AEN100101 & Above
(Combo Bkt 84) S/N AEN200101 & Above



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FEATURES AND ACCESSORIES

Standard Items

The combination bucket is equipped with the following Standard items:

- Reinforced bucket bottom and clamshell
- Heavy-duty cutting edges
- Replaceable bolt on clamshell cutting edge
- Replaceable rear cutting edge
- Protected cylinders

Options And Accessories

- Tooth and side cutting edge

Special Applications Kit For Loaders



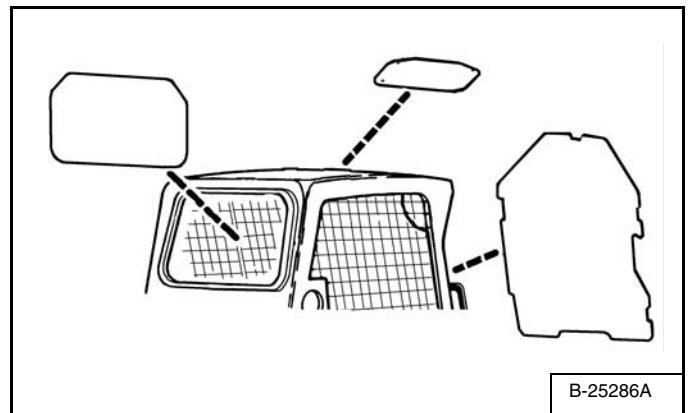
WARNING

AVOID INJURY OR DEATH

Some attachment applications can cause flying debris or objects to enter front, top or rear cab openings. Install the Special Applications Kit to provide added operator protection in these applications.

W-2737-0508

Figure 4



Available for special applications to restrict material from entering cab openings. Kit includes 12,7 mm (1/2 in) thick polycarbonate front door, top and rear windows [Figure 4].

See your Bobcat dealer for available special applications kit for your model loader.

OPERATING INSTRUCTIONS

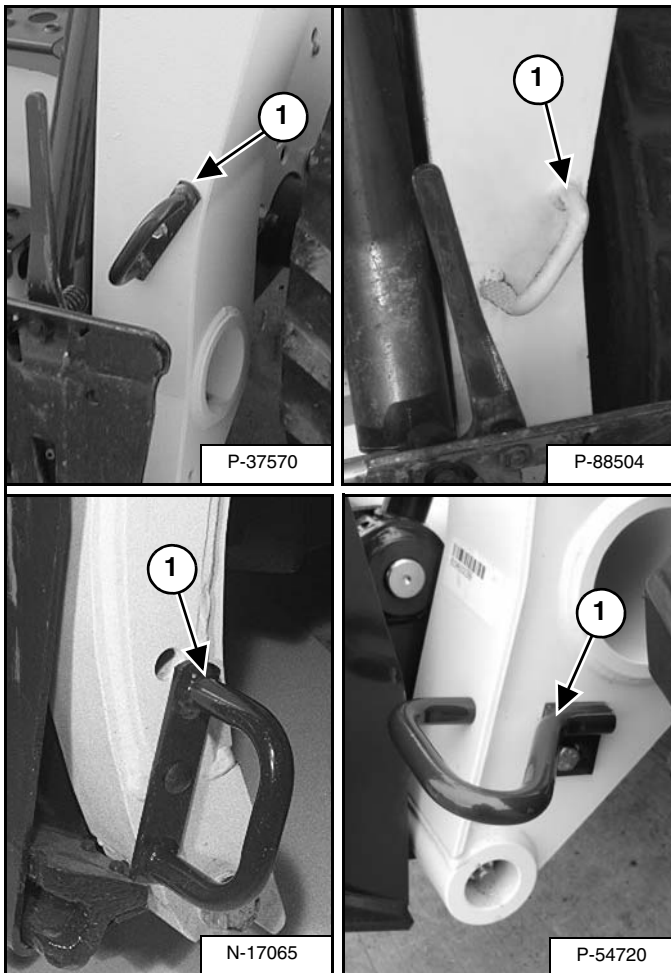
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OPERATING PROCEDURE WITH LOADERS (CONT'D)

Machine / Attachment Setup (Cont'd)

Hose Guide Installation (Earlier Version)

Figure 20

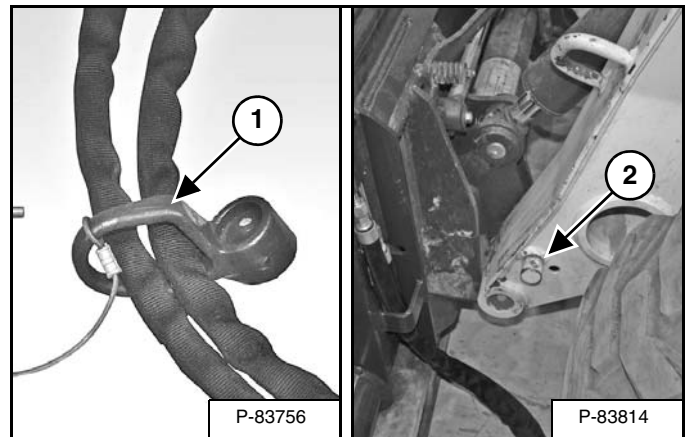


Install the correct hose guide (Item 1) [Figure 20] on the loader.

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.

Hose Guide Installation (Removable - If Equipped)

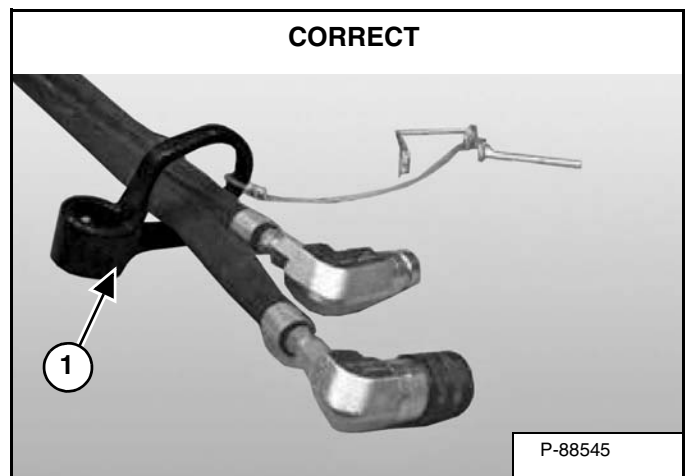
Figure 21



NOTE: Some attachments are factory equipped with a removable hose guide (Item 1) installed on the hydraulic hoses. The removable hose guide is factory installed for use with Bobcat loaders equipped with a mounting post (Item 2) [Figure 21]. Removable hose guide and mounting post kits are available through your Bobcat dealer.

Installation of removable hose guide is done during hose routing. (See Hose Routing (Removable - If Equipped) on Page 38.)

Figure 22



Shown is the removable hose guide (Item 1) [Figure 22] correct orientation for a loader.

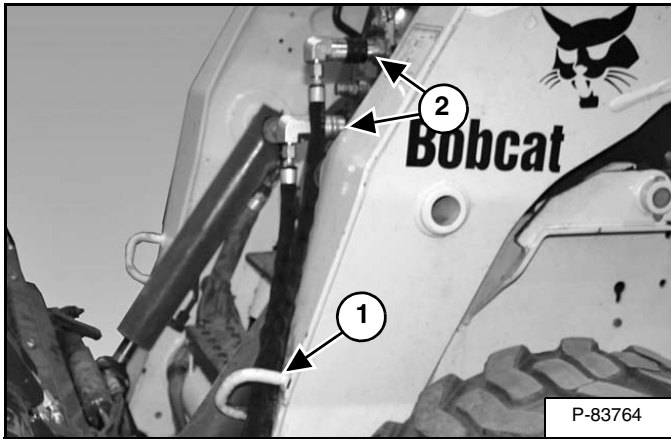
NOTE: The removable hose guide orientation may need to be changed for correct installation onto the machine.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Installation (Cont'd)

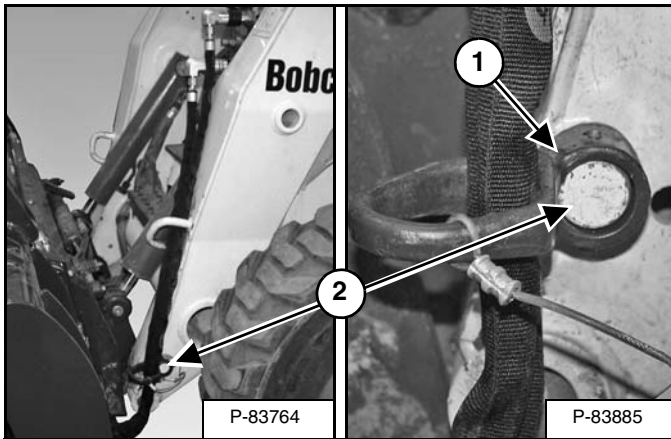
Hose Routing (Removable - If Equipped) (Cont'd)

Figure 46



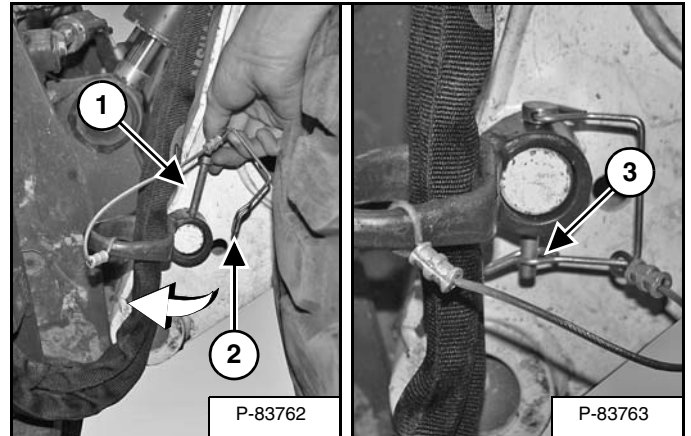
If your loader has a earlier version hose guide, route the attachment hydraulic hoses through the hose guide (Item 1). Connect the quick couplers to the loader (Item 2) [Figure 46]. (See For First Time Installation on Page 40.)

Figure 47



Install the removable hose guide (Item 1) onto the mounting post (Item 2) [Figure 47] located on the side of the loader lift arm.

Figure 48



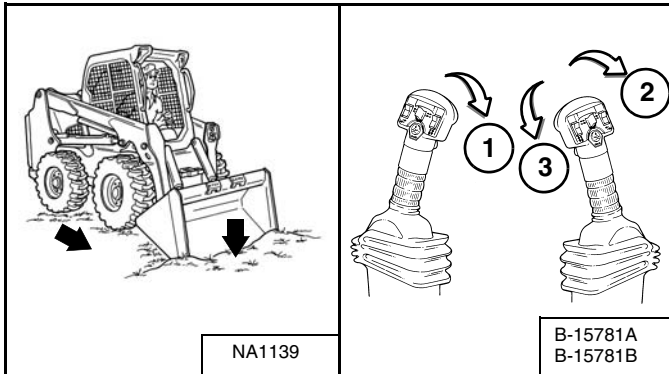
Insert lock pin (Item 1) through the removable hose guide and mounting post and latch eyelet (Item 2) onto the lock pin (Item 3) [Figure 48].

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Operation With The Loader (Includes ACS - Handles, SJC - "H" Pattern) (Cont'd)

Digging Into The Ground

Figure 67



Lower the lift arms all the way (Item 1). Put the front cutting edge of the combination bucket on the ground (Item 2) [Figure 67].

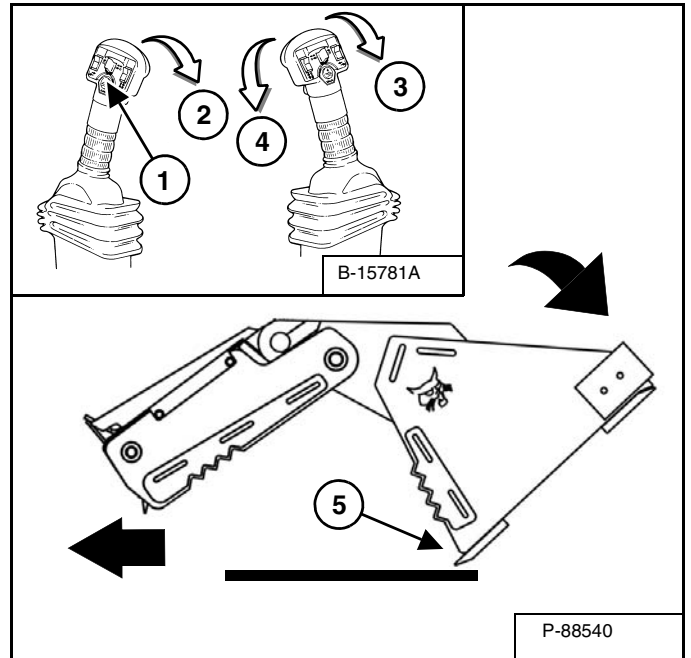
Drive forward slowly and continue to tilt the combination bucket down (Item 2) [Figure 67] until it enters the ground.

Raise the cutting edge a small amount (Item 3) to increase traction and keep an even digging depth. Continue to drive forward until the bucket is full. When the ground is hard, raise and lower the cutting edge of the bucket (Items 2 and 3) [Figure 67] while driving forward slowly.

Tilt the combination bucket backward (Item 3) [Figure 67] as far as it will go when the bucket is full.

Leveling (Using Lift Arms In The Float Position)

Figure 68



Earlier model loaders: Move the left hand lever toward the operator and all the way down until it is in the locked position to put the lift arms in *float* position (Item 2) [Figure 68].

Later model loaders: Push the left hand lever *float* switch (Item 1) [Figure 68] to put the lift arms in *float* position. Push the switch a second time to stop the float function (or any time the lift arms are raised, the float switch will disengage).

Use the right hand lever to tilt the combination bucket (forward or backward) (Items 3 and 4) [Figure 68] to the best position for your leveling needs.

Open the clamshell all the way and lower the combination bucket to the ground.

Tilt the Bob-Tach forward until the back cutting edge of the clamshell (Item 5) [Figure 68] touches the ground.

Drive backward to level the ground.

OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

Entering And Exiting The VersaHANDLER

Entering



AVOID INJURY OR DEATH

Before leaving the machine:

- Lower the work equipment to the ground.
- Lower the blade to the ground.
- Engage the parking brake.
- Stop the engine and remove the key.
- Raise control lockout lever.

W-2767-1108

Figure 89



Use the hand grabs (Item 1) [Figure 89] to enter the operator cab.

NOTE: Maintain three-point contact at all times while entering or exiting the VersaHANDLER. Do not jump.

Figure 90



Fasten seat belt and lower the restraint bar (Item 1) [Figure 90] (if equipped), and engage the parking brake.

Put the Travel Direction Control lever and joystick in NEUTRAL.

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

Exiting

Put the Travel Direction Control Lever and the Joystick in NEUTRAL.

Engage the parking brake.

Retract and lower the boom and attachment flat on the ground.

Stop the engine.

Raise the restraint bar (if equipped) and make sure the lift, tilt, boom extend, auxiliary hydraulic and traction drive functions are deactivated.

Remove the key.

Exit the VersaHANDLER.



Before you leave the operator's position:

- Put the travel Direction Control Lever and the Joystick in neutral.
- Engage the parking brake.
- Retract and lower the boom and attachment flat on the ground.
- Stop the engine. Raise the restraint bar (if equipped).

SEE THE MACHINE OPERATION & MAINTENANCE MANUAL FOR MORE INFORMATION.

W-2637-0607

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OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

Operation With The VersaHANDLER (Cont'd)

Operating With A Full Bucket

! WARNING

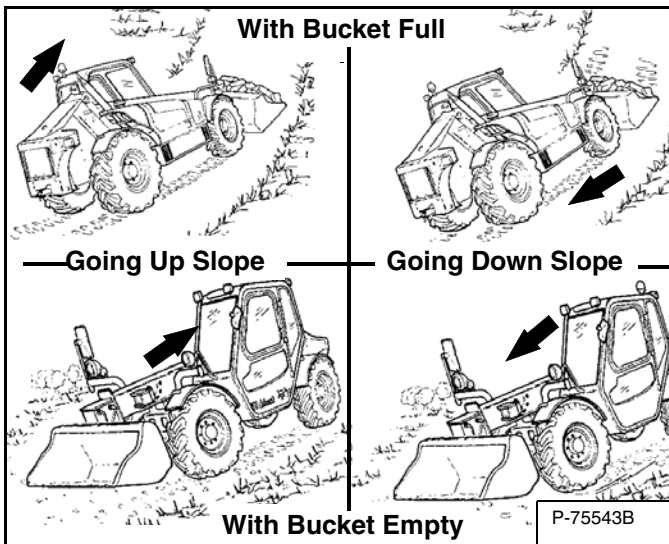
AVOID INJURY OR DEATH

- Keep the boom as low as possible.
- Do not travel or turn with the boom up.
- Turn on level ground. Slow down when turning.
- Go up and down slopes, not across them.
- Keep the heavy end of the machine uphill.
- Do not overload the machine.

Failure to obey warnings can cause the machine to tip or rollover and cause injury or death.

W-2650-1112

Figure 105



With a full bucket, go up or down the slope with the heavy end toward the top of the slope [Figure 105].

NOTE: Go up or down slopes, not across them.

Raise the bucket only high enough to avoid obstructions on rough ground.

! WARNING

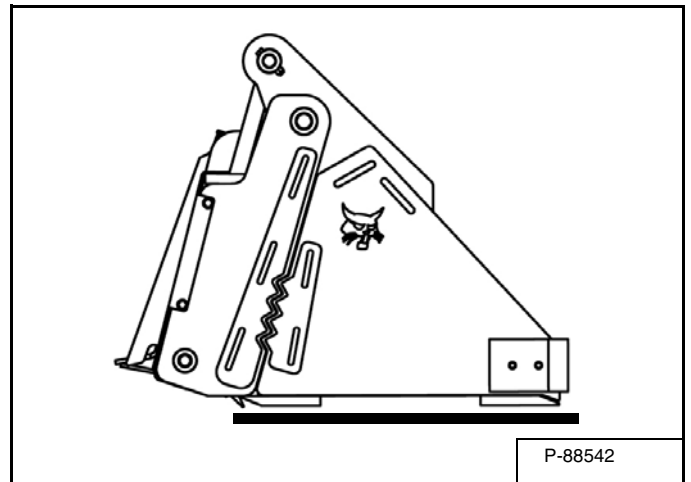
AVOID INJURY OR DEATH

- Bystanders must keep at least 3 m (10 ft) away from the machine and attachment when operating.
- Never leave the operating position when the engine is running.

W-2320-0910

Using As A Bucket

Figure 106



The combination bucket can be used as a standard bucket for digging, loading and moving materials [Figure 106].

The combination bucket can be dumped by either raising the boom and tilting the Bob-Tach forward, or by opening the clamshell.

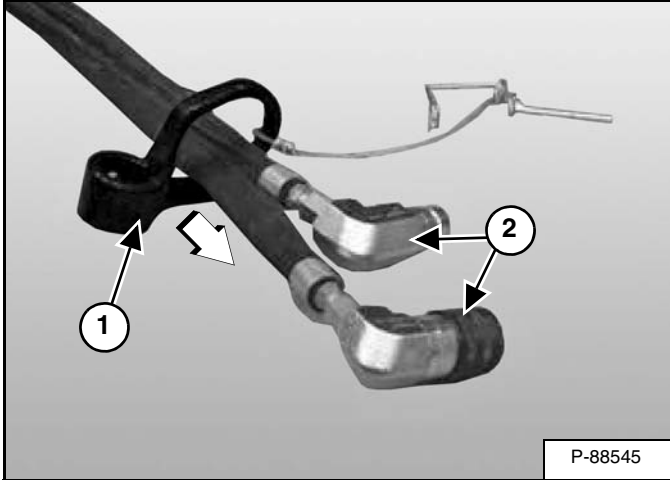
OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Machine / Attachment Setup (Cont'd)

Hose Guide Installation (Removable - If Equipped) (Cont'd)

Use the following procedure to reorientate the removable hose guide for use on the work machine.

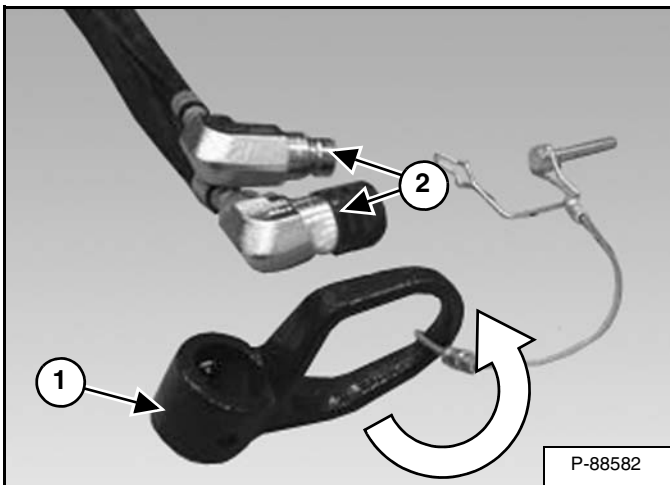
Figure 129



To change the removable hose guide (Item 1) [Figure 129] orientation, slide the removable hose guide off the hoses.

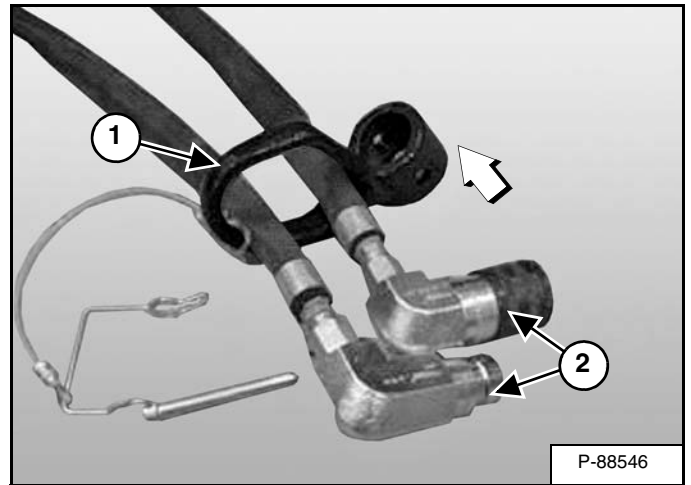
NOTE: It may be necessary to remove the hose couplers (Item 2) [Figure 129].

Figure 130



Flip the removable hose guide (Item 1) over to reverse its orientation on the hoses (Item 2) [Figure 130].

Figure 131



Slide the removable hose guide (Item 1) [Figure 131] back onto the hoses.

NOTE: If the couplers (Item 2) [Figure 131] were removed, reinstall at this time.

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Installation (Cont'd)

For First Time Installation

New attachments and new machines are factory equipped with flush face couplers. If installing an attachment equipped with poppet style couplers, the attachment couplers will have to be changed to match the machine. See your Bobcat dealer for parts information.

IMPORTANT

- **Thoroughly clean the quick couplers before making connections. Dirt can quickly damage the system.**
- **Contain and dispose of any oil leakage in an environmentally safe manner.**

I-2278-0608

With the machine engine off and using the hose guides (if equipped), route the attachment hydraulic hoses to the machine. Connect the attachment hydraulic quick couplers to the machine couplers. (See Hydraulic Quick Couplers on Page 90.)

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

NOTE: It may be necessary to loosen the quick couplers on the attachment hydraulic hoses to remove any twists in the hoses.

WARNING

AVOID INJURY OR DEATH

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.**

W-2019-0907

Loosen the quick coupler connections on the attachment hydraulic hoses while connected to the machine. Do not remove the quick couplers.

Rotate the attachment hydraulic hoses as needed so the hoses are not twisted or contacting any moving parts of the machine or attachment.

With the twist(s) removed from the hydraulic hoses, tighten the attachment quick coupler connections while the couplers are still connected to the machine. This will help hold the hydraulic hoses in position while tightening.

Tighten the quick couplers connections to 63 N•m (46 ft-lb) torque before starting the machine.

Enter the work machine. (See Entering And Exiting The Work Machine on Page 80.)

Start the engine.

Engage auxiliary hydraulics. (See the machine's Operation & Maintenance Manual and Operator's Handbook for correct procedure.)

WARNING

AVOID INJURY OR DEATH

Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention from a physician familiar with this injury.

W-2072-0807

Check the attachment hydraulic quick coupler connections for leaks.

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Removal (Cont'd)

Power Bob-Tach

Lower the lift arm and put the attachment flat on the ground. Lower or close the hydraulic equipment.

NOTE: In muddy conditions or to prevent the attachment from freezing to the ground, put the attachment on planks or blocks before removing the attachment from the machine.

Stop the engine and release auxiliary hydraulic pressure (if applicable). (See the work machine's Operation & Maintenance Manual and Operator's Handbook for correct procedure.)

Exit the work machine. (See Entering And Exiting The Work Machine on Page 80.)



AVOID INJURY OR DEATH

Before you leave the operator's seat:

- Lower the lift arm, put attachment and implement (if equipped) flat on the ground.
- Put Travel Direction Control Lever in PARK.
- Stop the engine.
- Raise operator arm rest.

W-2740-0608

Disconnect auxiliary hydraulic hoses. (See Hydraulic Quick Couplers on Page 90.)

Enter the work machine. (See Entering And Exiting The Work Machine on Page 80.)

Start the engine.

Figure 177

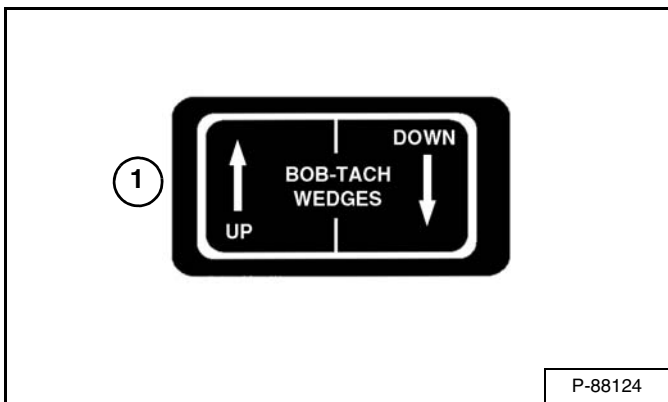
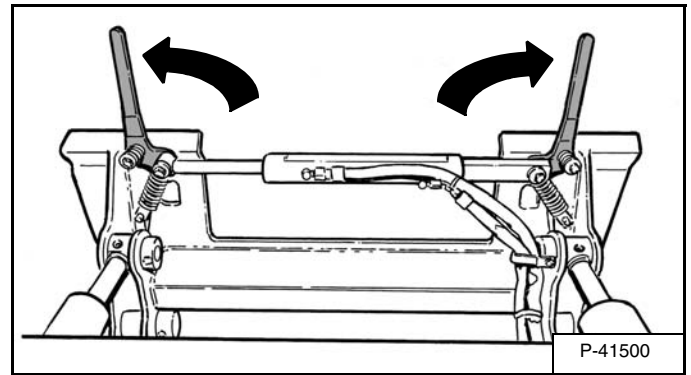
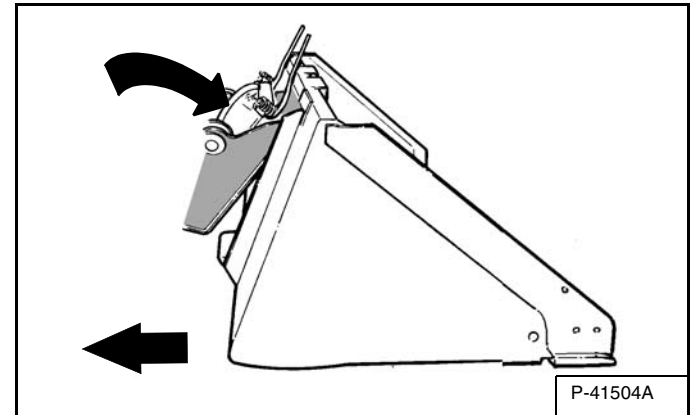


Figure 178



Push and hold the Bob-Tach "WEDGES UP" switch (Item 1) [Figure 177] until the levers are fully raised (wedges fully raised) [Figure 178].

Figure 179



Tilt the Bob-Tach forward and drive the work machine backward, away from the attachment [Figure 179].

NOTE: The Power Bob-Tach system has continuous pressurized hydraulic oil to keep the wedges in the engaged position and prevent attachment disengagement. Because the wedges can slowly lower, the operator may need to reactivate the switch (Bob-Tach "WEDGES UP") when removing an attachment to be sure both wedges are fully raised.

LUBRICATING THE ATTACHMENT

Lubrication Locations

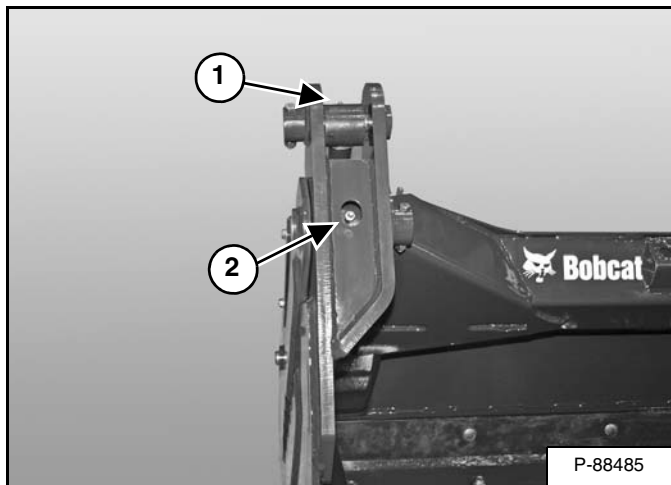
Always use a good quality lithium base multi purpose grease when lubricating the attachment. Apply lubricant until extra grease shows.

IMPORTANT

Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

I-2067-0499

Figure 186



Apply grease to the cylinder rod end grease fittings (Item 1) and to the bucket pivot points (Item 2) [Figure 186].

Figure 187

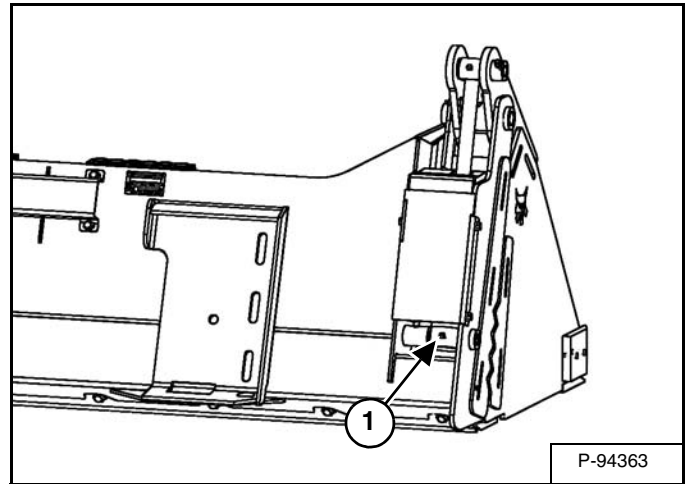
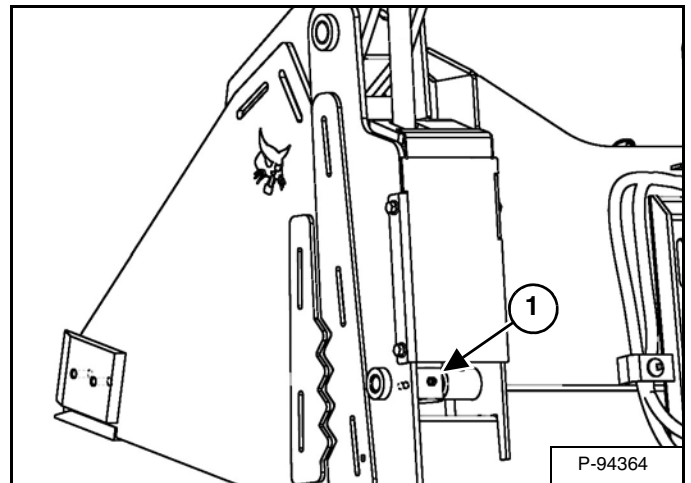


Figure 188

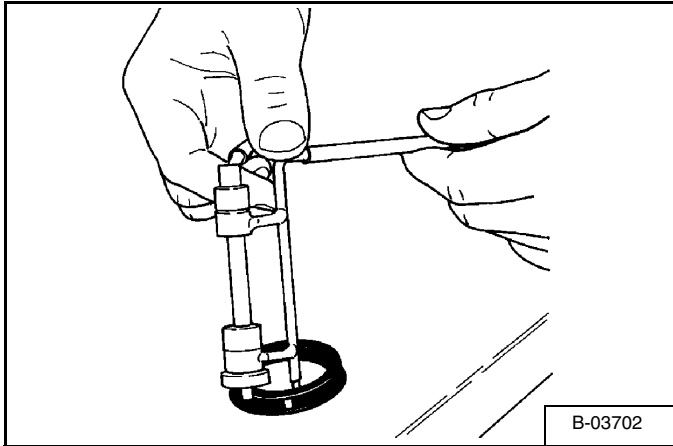


Apply grease to the cylinder base end grease fittings (Item 1) [Figure 187] and [Figure 188].

HYDRAULIC CYLINDER (CONT'D)

Assembly (Cont'd)

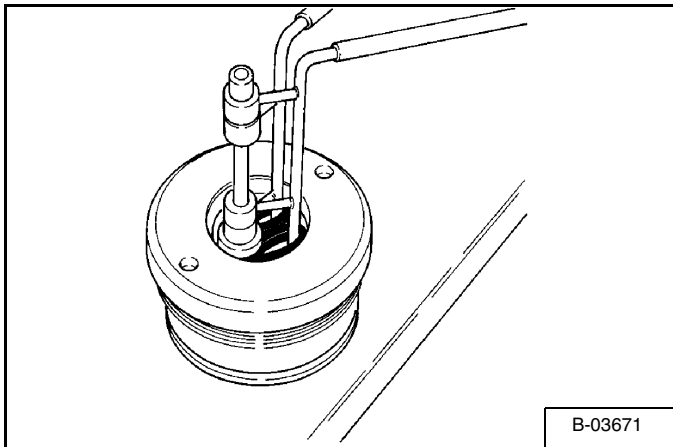
Figure 210



Install the oil seal on the rod seal tool [Figure 210].

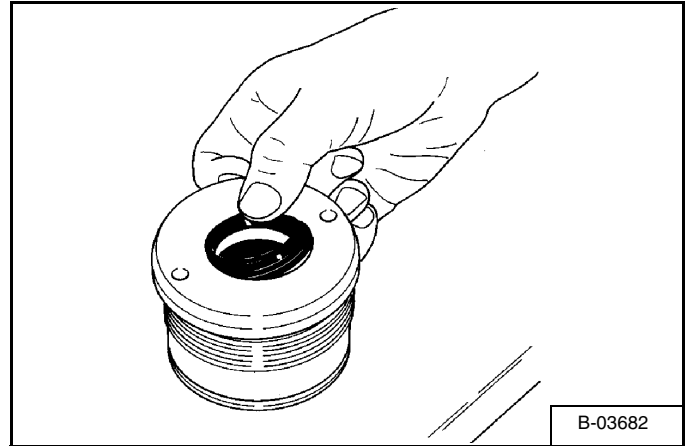
NOTE: The O-ring side of the oil seal goes toward the inside of the cylinder.

Figure 211



Install the oil seal in the head [Figure 211].

Figure 212



Install the wiper seal with the lip toward the outside of the head [Figure 212].

Figure 213

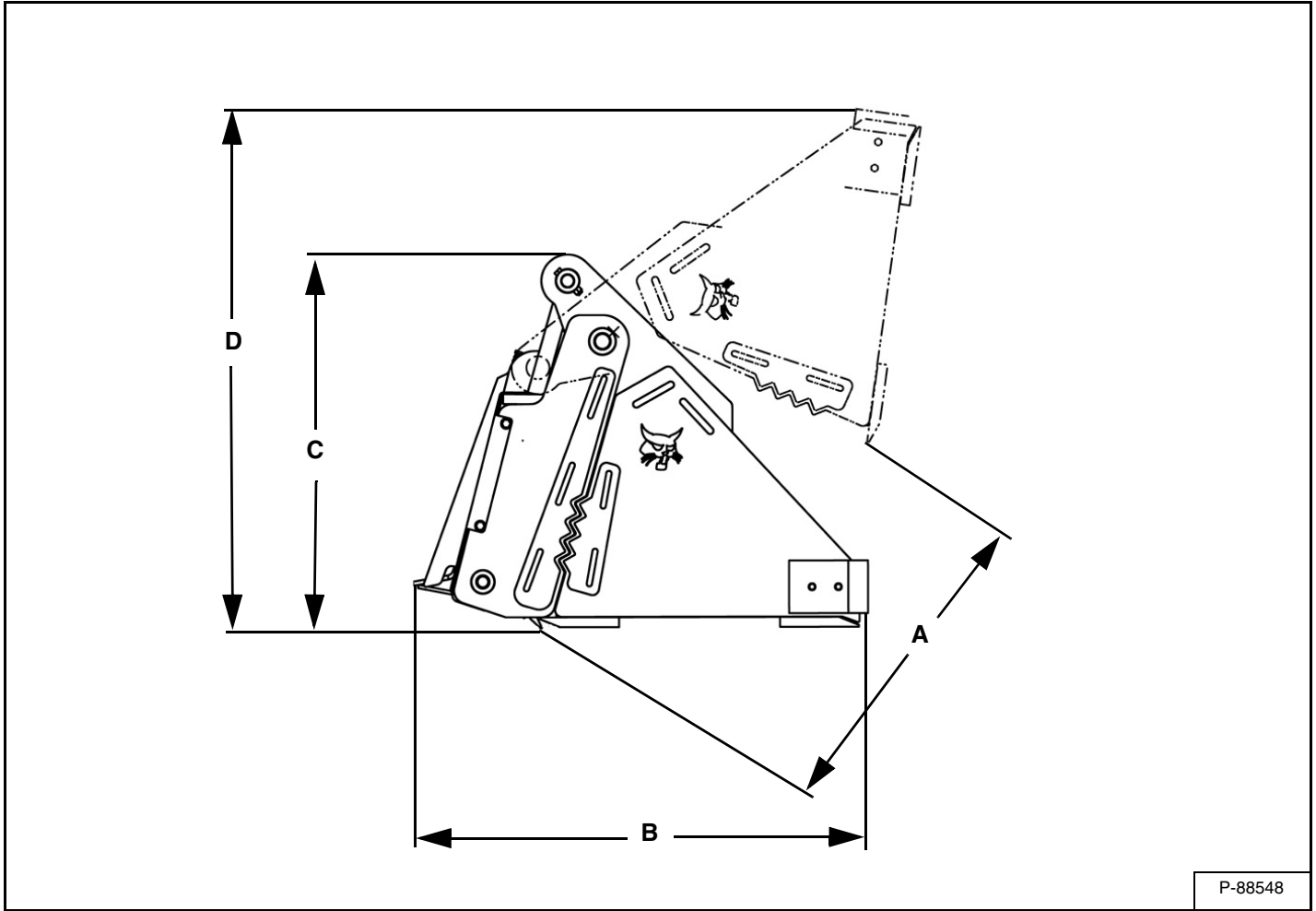


Install the back-up washer on the head [Figure 213].

(COMBO BKT) COMBINATION BUCKET SPECIFICATIONS (CONT'D)

Dimension (Cont'd)

- Where applicable, specifications conform to **SAE and ISO** standards and are subject to change without notice.



P-88548

	COMBO BKT 62	COMBO BKT 68	COMBO BKT 74	COMBO BKT 80	COMBO BKT 84
A	728 mm (28.6 in)	728 mm (28.6 in)	728 mm (28.6 in)	935 mm (36.8 in)	935 mm (36.8 in)
B	878 mm (34.6 in)	878 mm (34.6 in)	878 mm (34.6 in)	989 mm (38.9 in)	989 mm (38.9 in)
C	718 mm (28.2 in)	718 mm (28.2 in)	718 mm (28.2 in)	852 mm (33.5 in)	852 mm (33.5 in)
D	1004 mm (39.5 in)	1004 mm (39.5 in)	1004 mm (39.5 in)	1188 mm (46.8 in)	1188 mm (46.8 in)

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