



Bobcat®

Operation & Maintenance Manual



Soil Conditioner

(60SCM) S/N A5PS00101 & Above
(60SCH) S/N A86R00101 & Above
(72SCM) S/N 651300101 & Above
(72SCH) S/N S6TE00101 & Above
(72SCHHF) S/N A6TD00101 & Above
(84SCH) S/N A6TG00101 & Above
(84SCHHF) S/N A6TH00101 & Above



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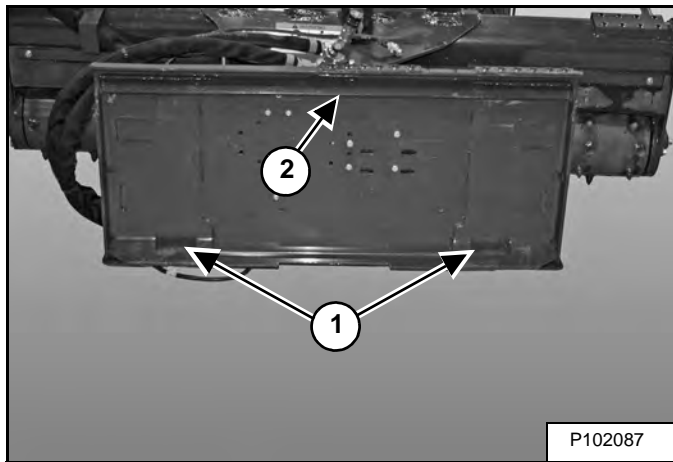
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DAILY INSPECTION

Attachment Mounting Frame

Figure 3



Inspect the Bob-Tach[®] attachment mounting system wedge mounts (Item 1) mounting flange (Item 2) [Figure 3], and all welds on the attachment mount for wear or damage each time the attachment is removed from the machine.

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

Bob-Tach

Hand Lever Bob-Tach

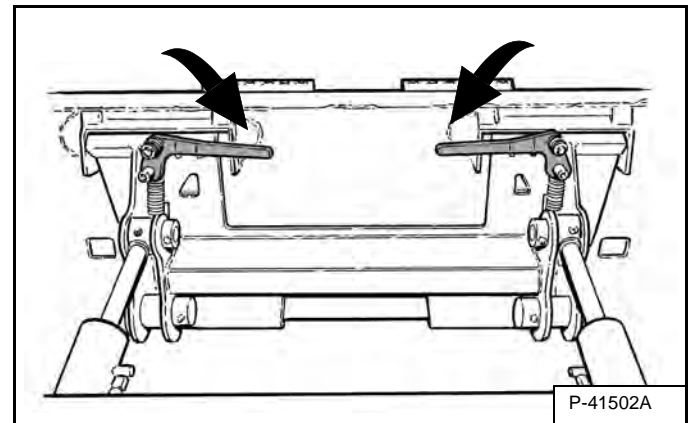


AVOID INJURY OR DEATH

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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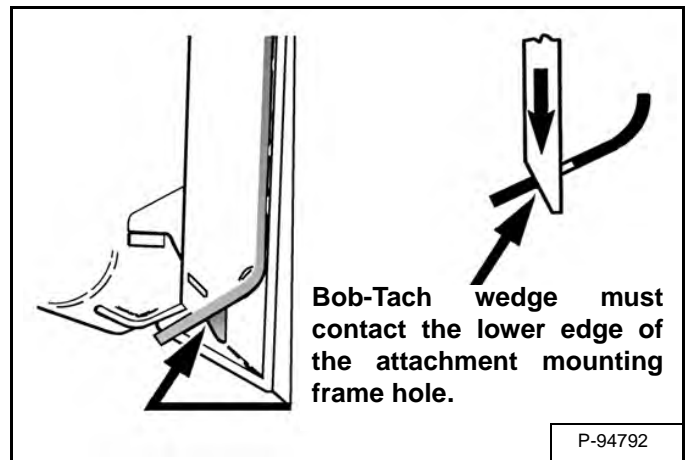
Figure 4



Push down on the Hand Lever Bob-Tach[®] attachment mounting system levers until they are fully engaged in the locked position [Figure 4] (wedges fully extended through the attachment mounting frame holes).

The levers and wedges must move freely [Figure 4].

Figure 5



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 5].

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.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Installation (Cont'd)

Hand Lever Bob-Tach (Cont'd)



AVOID INJURY OR DEATH

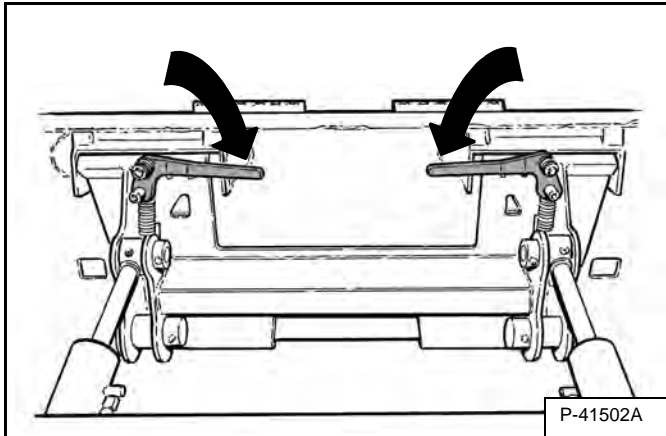
Before you leave the operator's seat:

- 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.

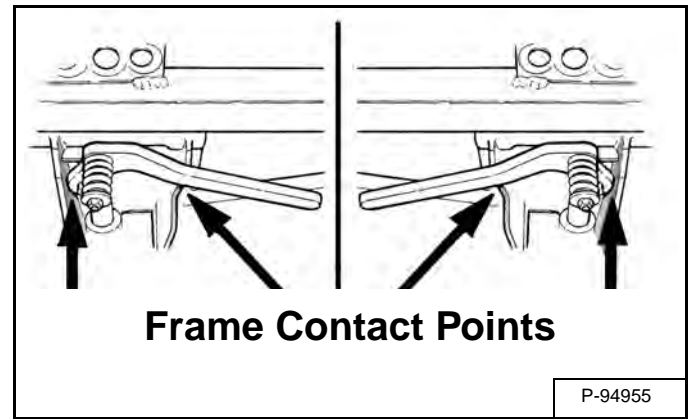
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Figure 22



Push down on the Bob-Tach levers until they are fully engaged in the locked position [Figure 22] (wedges fully extended through the attachment mounting frame holes).

Figure 23



Both levers must contact the frame as shown when locked [Figure 23].

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

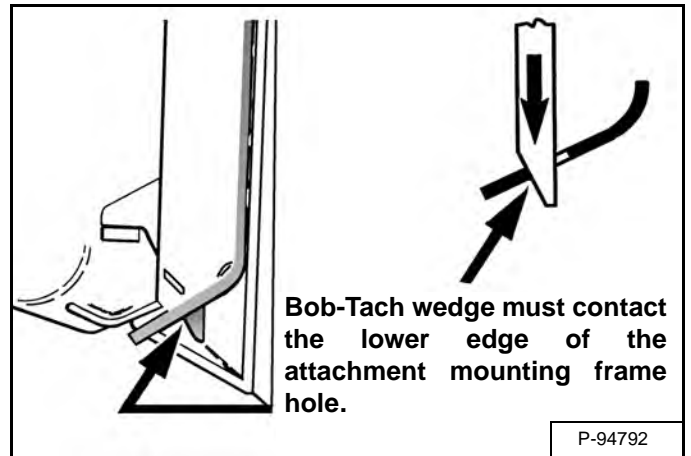


AVOID INJURY OR DEATH

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 24



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 24].

Connect auxiliary hydraulic hoses. (See Hydraulic Quick Couplers on Page 34.)

Connect wire harness. (See Electrical Harness on Page 35.)

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Operation With The Loader

! WARNING

FLYING OBJECTS AND ROTATING PARTS CAN CAUSE INJURY OR DEATH

- Stay at least 3 m (10 ft) away from operating equipment.
- Stop engine before cleaning or servicing.
- Keep all guards in place.

W-2706-0910

Figure 41



The soil conditioner [Figure 41] is used to clear rocks, debris, grass, weeds, and other materials. The soil conditioner prepares the soil by making it level, smooth and ready for landscaping.

Travel Direction

Figure 42

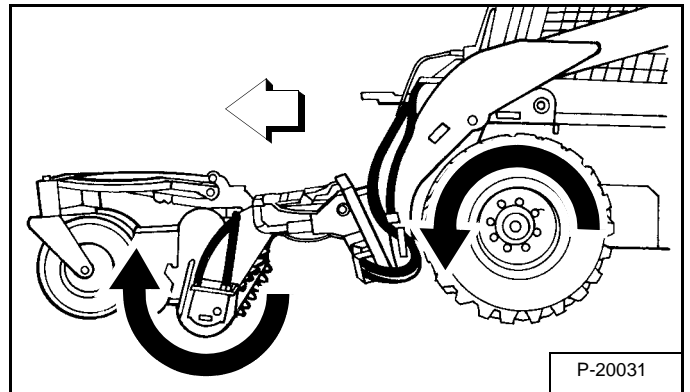
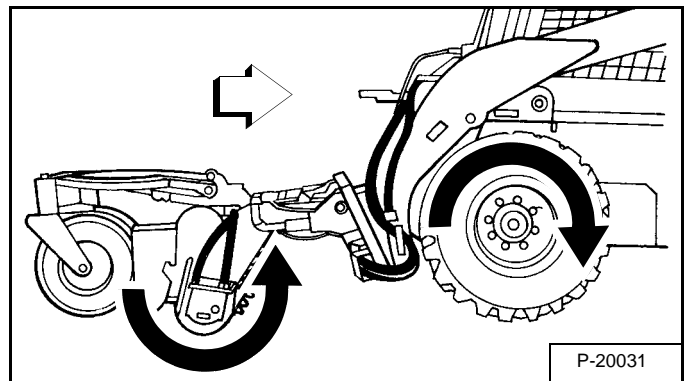


Figure 43



The drum rotates the opposite direction of the tires, forward travel [Figure 42] reverse travel [Figure 43].

OPERATING PROCEDURE WITH VERSAHANDLERS

Approved VersaHANDLER Models And Requirements

Figure 64

VERSA-HANDLER MODEL	SOIL CONDITIONER
	84SCH
V417	X
V519	X

X = Approved

The chart [Figure 64] shows the approved soil conditioner model for the V417 and V519 VersaHANDLER.

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.

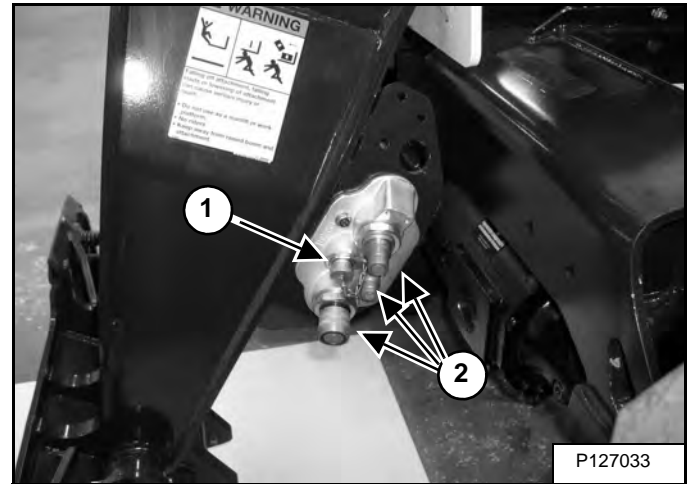
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Figure 65



The V417 VersaHANDLER must be equipped with an electrical attachment control kit and front auxiliary hydraulics [Figure 65] for proper operation of the soil conditioner. See your Bobcat dealer for available kits.

Figure 66



The V519 is factory equipped with the electrical attachment control harness (Item 1) and the front auxiliary couplers (Item 2) [Figure 66] for proper operation of the attachment.

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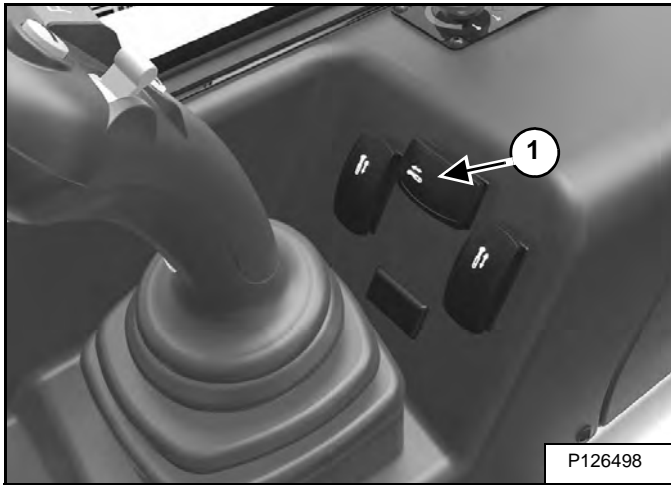
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OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

Control Functions (Cont'd)

To Angle The Soil Conditioner on the V519 VersaHANDLER.

Figure 86

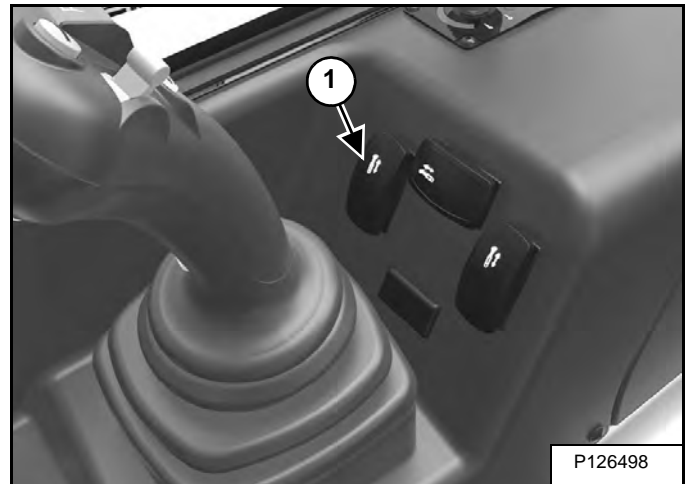


To angle the soil conditioner to the left, push the switch (Item 1) **[Figure 86]** to the left.

To angle the soil conditioner to the right, push the switch (Item 1) **[Figure 86]** to the right.

To Raise / Lower The Soil Conditioner Drum

Figure 87



To raise the drum, push the top of switch (Item 1) **[Figure 87]**.

To lower the drum, push the bottom of switch (Item 1) **[Figure 87]**.

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Entering And Exiting The Work Machine

! WARNING

AVOID INJURY OR DEATH

When operating the machine:

- Keep the seat belts fastened snugly.
- The arm rest must be lowered.
- Keep your feet and arms inside the cab.

W-2454-1102

Entering

Enter and exit the operator seat of the work machine from the left side.

NOTE: The left side of the work machine as viewed from the operator seat.

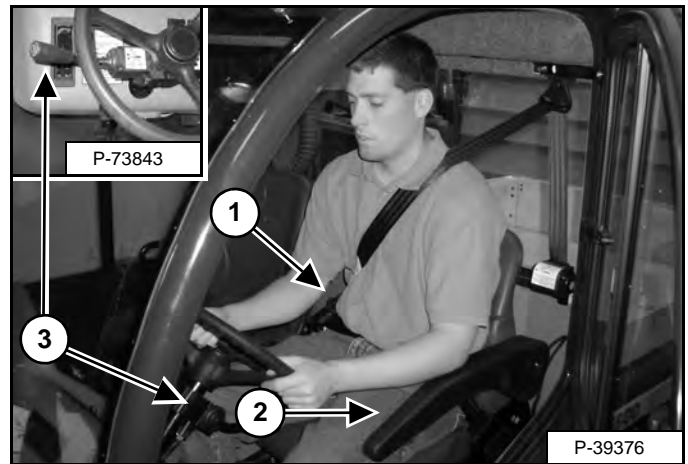
Figure 107



Enter the cab [Figure 107].

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

Figure 108



Fasten the seat belt (Item 1) and lower the operator arm rest (Item 2) [Figure 108].

Put the Travel Direction Control Lever (Item 3) [Figure 108] in PARK.

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

Exiting

Put the Travel Direction Control Lever (Item 3) [Figure 108] in PARK.

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

Lower the attachment to the ground (if equipped).

Stop the engine.

Raise the operator arm rest, unfasten seat belt and remove the key.

Exit the work machine.

! WARNING

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.

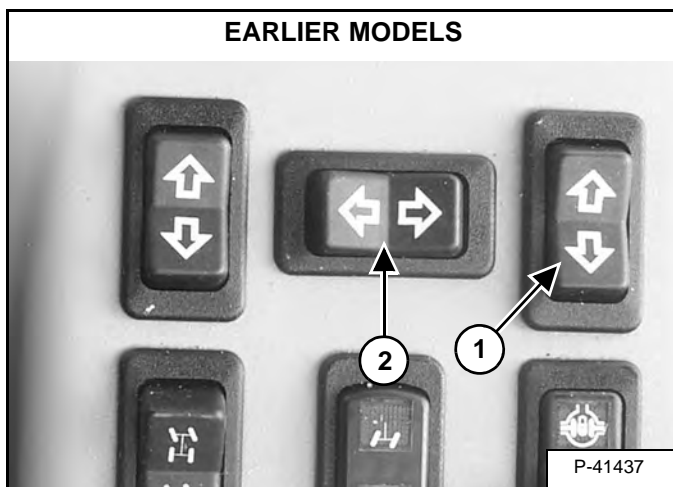
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OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Control Function (Cont'd)

To Angle The Soil Conditioner (Hydraulic Version)

Figure 127



To raise the drum, push the switch (Item 1) [Figure 127] up.

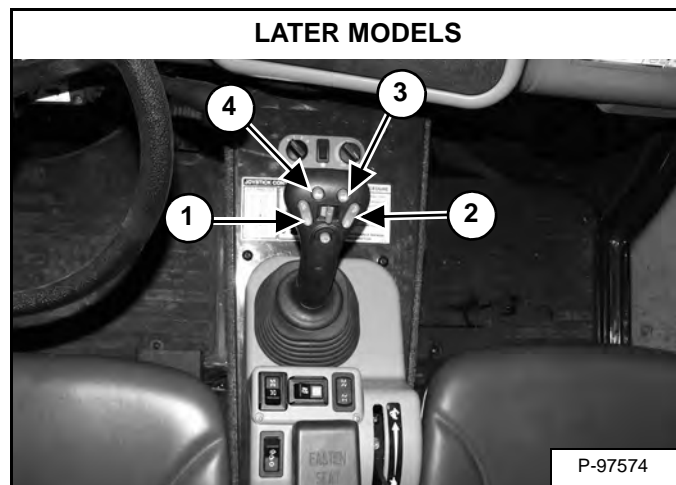
To lower the drum, push the switch (Item 1) [Figure 127] down.

To angle to the right, push the switch (Item 2) [Figure 127] to the right.

To angle to the left, push the switch (Item 2) [Figure 127] to the left.

NOTE: (Item 2) [Figure 127] requires the drum to be rotating to be activated.

Figure 128



To raise the drum, push the switch (Item 1) up [Figure 128].

To lower the drum, push the switch (Item 2) down [Figure 128].

To angle to the right, push the switch (Item 3) [Figure 128].

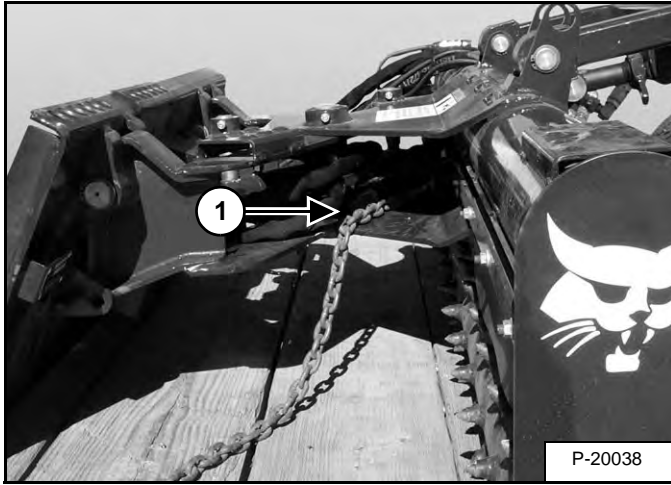
To angle to the left, push the switch (Item 4) [Figure 128].

NOTE: (Items 3 and 4) [Figure 128] require the drum to be rotating to be activated.

TRANSPORTING THE ATTACHMENT ON A TRAILER

Fastening

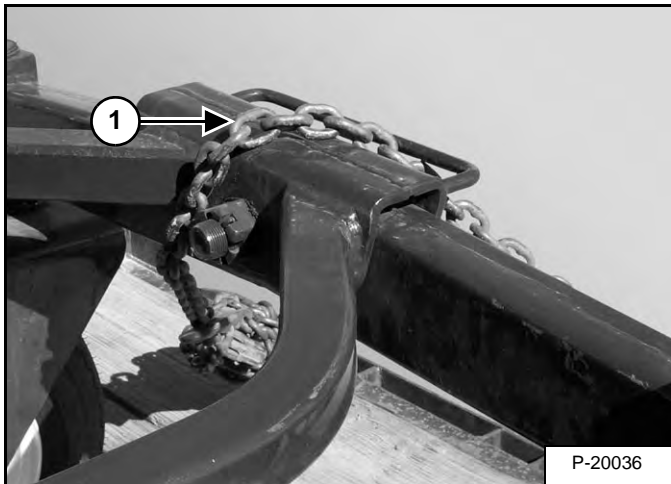
Figure 156



When on the transport vehicle, put the chain around the pivot section (Item 1) [Figure 156] of the soil conditioner.

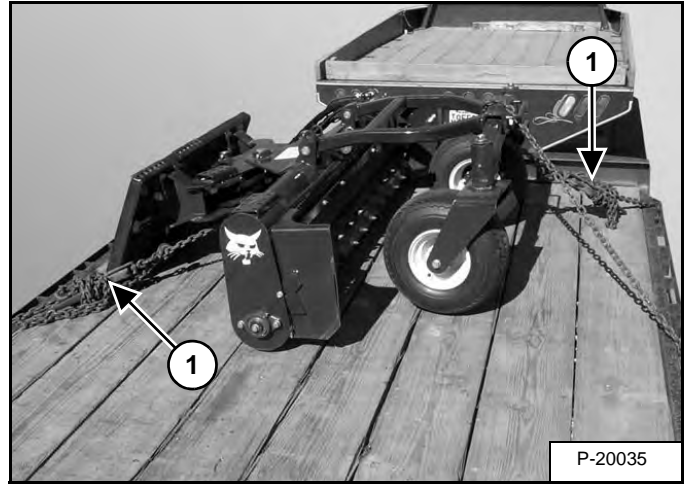
NOTE: Be sure to move hydraulic hoses above chain or damage could occur.

Figure 157



Put the second chain (Item 1) [Figure 157] around the bolster assembly.

Figure 158



Attach the ends of the chains to the transport vehicle.

Use chain binders (Item 1) [Figure 158] to tighten chains and prevent the soil conditioner from moving during transport.

Secure all hydraulic hoses and electrical harness to the soil conditioner.

REMOVAL AND INSTALLATION (CONT'D)

Procedure(s) (Cont'd)

Drum Teeth Replacement (Cont'd)

Figure 168

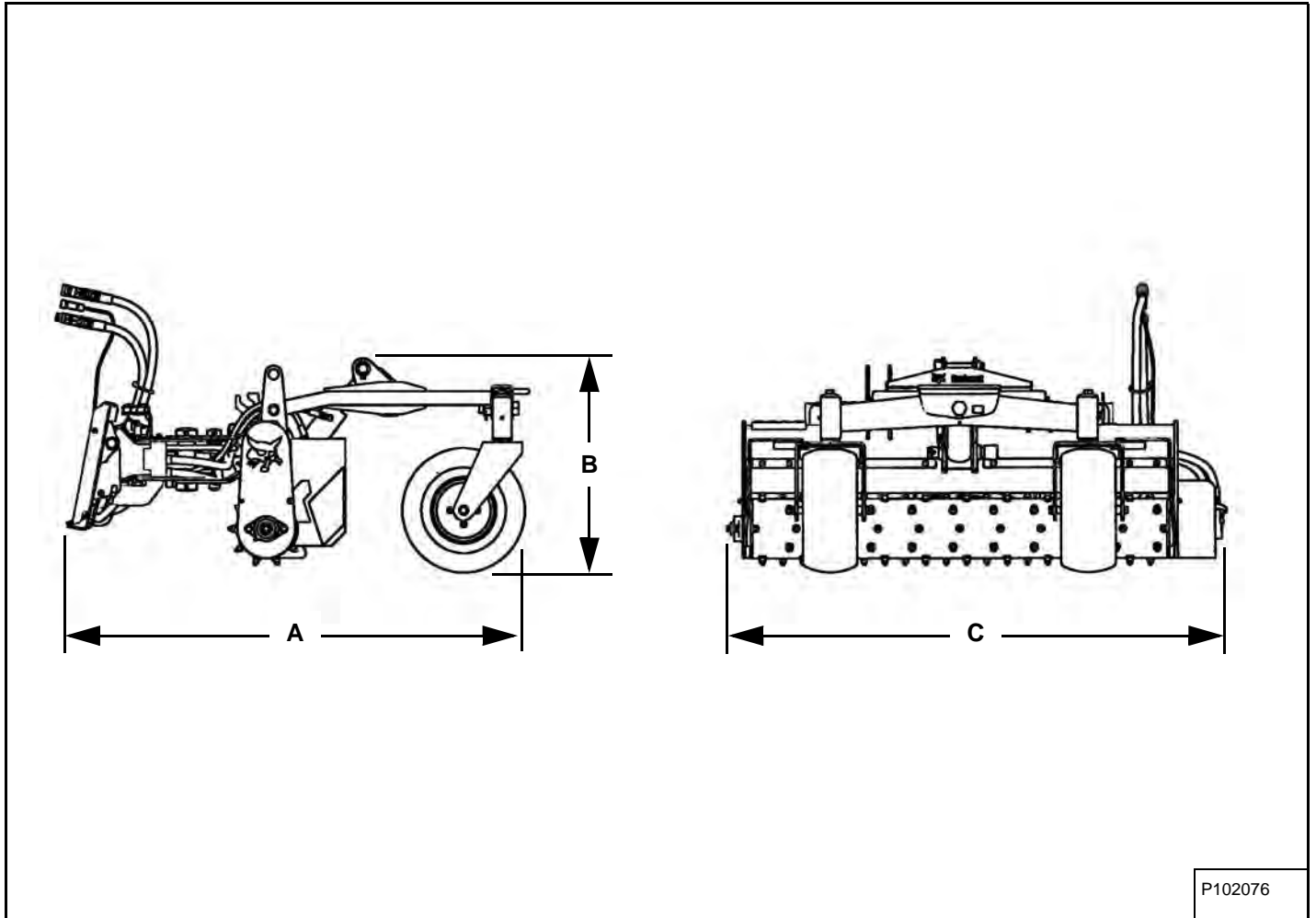


Weld a new tooth to the drum **[Figure 168]**.

(60SCM, 60SCH) SOIL CONDITIONER SPECIFICATIONS

Dimensions

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



DESCRIPTION	60SCM	60SCH
Length (A)	1729,4 mm (68.09 in)	
Height (B)	761,3 mm (29.97 in)	
Width (C)	1821,2 mm (71.70 in)	
Width (Fully Angled)	1381,8 mm (54.4 in)	
Straight Working Width	1524 mm (60 in)	

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