

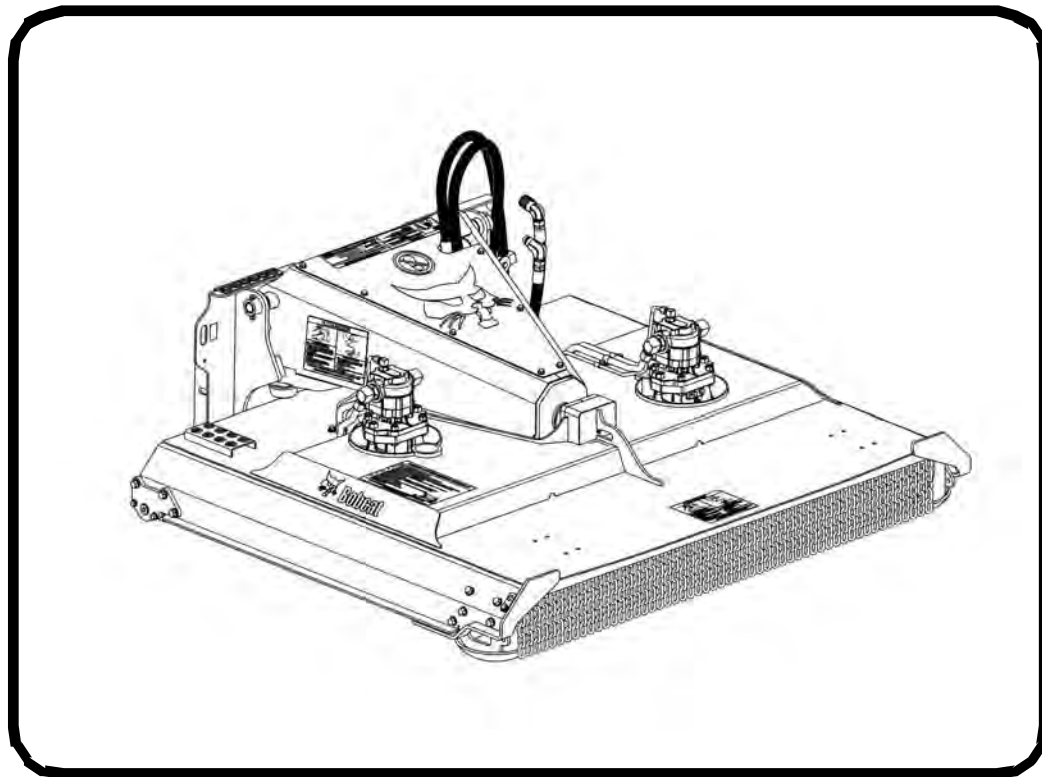


Bobcat®

Operation & Maintenance Manual

Rotary Cutter

(66) S/N B37K00101 & Above
(66HF) S/N B37600101 & Above
(72) S/N AYVY00101 & Above
(72HF) S/N B37500101 & Above
(80) S/N B37700101 & Above



OPERATOR SAFETY WARNINGS



WARNING

Operator must have instructions before operating the machine. Untrained operators can cause injury or death.

W-2001-0502



Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.

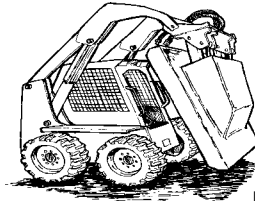
CORRECT



P-90216

- ⚠ Never use the rotary cutter without instructions. See machine signs (decals), Operation & Maintenance Manual, and Operator's Handbook.

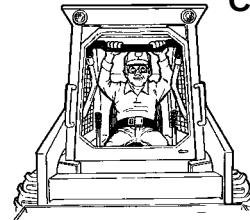
CORRECT



B-15108

- ⚠ Always install approved lift arm support device when servicing rotary cutter. Raise lift arm(s) and tilt Bob-Tach fully forward.

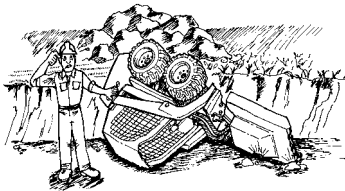
CORRECT



B-11982

- ⚠ Always use the seat bar and fasten seat belt snugly.
- ⚠ Always keep hands and feet on the controls when operating machine

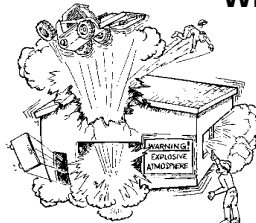
CORRECT



B-15109

- ⚠ Always check work area before operating rotary cutter.
- ⚠ Never use machine without operator cab with ROPS and FOPS approval. Fasten your seat belt.

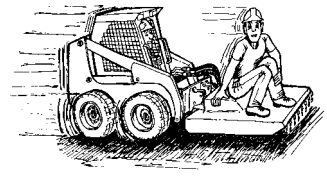
WRONG



B-15110

- ⚠ Do not use machine or rotary cutter in atmosphere with explosive dust, explosive gas, or where exhaust can contact flammable material.

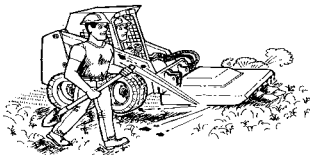
WRONG



B-15111

- ⚠ Never allow riders on rotary cutter.
- ⚠ Keep bystanders away when operating rotary cutter.

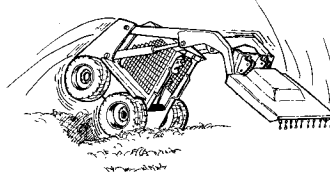
WRONG



B-15112

- ⚠ Keep bystanders away when operating rotary cutter.
- ⚠ Do not operate without blade shutoff device.

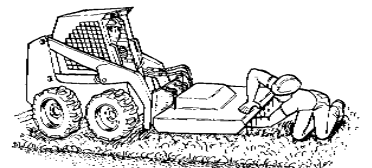
WRONG



B-15113

- ⚠ Always carry attachment as low as possible.
- ⚠ Do not travel or turn with lift arm(s) up.

WRONG



B-15114

- ⚠ Do not put hands, feet, or objects under rotary cutter when engine is running.
- ⚠ To park, engage parking brake and put attachment flat on the ground and stop engine.

SAFETY EQUIPMENT

The Bobcat machine and attachment must be equipped with safety items necessary for each job. Ask your dealer about attachments and accessories.

1. SEAT BELT: Check belt fasteners and check for damaged webbing or buckle.
2. SEAT BAR OR ARM REST: When up, it must lock the controls.
3. OPERATOR CAB (ROPS and FOPS): It must be on the machine with all fasteners tight.
4. OPERATOR'S HANDBOOK: Must be in the cab.
5. MACHINE AND ATTACHMENT SAFETY SIGNS (DECALS): Replace if damaged.
6. SPECIAL APPLICATIONS KIT: Available from your Dealer.
7. GRAB HANDLES: Replace if damaged.
8. SAFETY TREADS: Replace if damaged.
9. LIFT ARM SUPPORT DEVICE
10. PARKING BRAKE
11. BLADE SHUTOFF DEVICE

OSW33-1209



Bobcat®

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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



Bobcat®

FOREWORD

This Operation & Maintenance Manual was written to give the owner / operator instructions on the safe operation and maintenance of the attachment. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR ATTACHMENT. If you have any questions, see your Bobcat dealer.

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Bobcat®

BOBCAT COMPANY IS ISO 9001 CERTIFIED



ISO 9001 is an international standard that specifies requirements for a quality management system that controls the processes and procedures which we use to design, develop, manufacture, and distribute Bobcat products.

British Standards Institute (**BSI**) is the Certified Registrar Bobcat Company chose to assess the company's compliance with the ISO 9001 at Bobcat's manufacturing facilities in Gwinner, North Dakota (U.S.A.), Pontchâteau (France), and the Bobcat corporate offices (Gwinner, Bismarck, and West Fargo) in North Dakota. **TÜV Rheinland** is the Certified Registrar Bobcat Company chose to assess the company's compliance with the ISO 9001 at Bobcat's manufacturing facility in Dobris (Czech Republic). Only certified assessors, like BSI and TÜV Rheinland, can grant registrations.

ISO 9001 means that as a company we say what we do and do what we say. In other words, we have established procedures and policies, and we provide evidence that the procedures and policies are followed.

CALIFORNIA PROPOSITION 65 WARNING

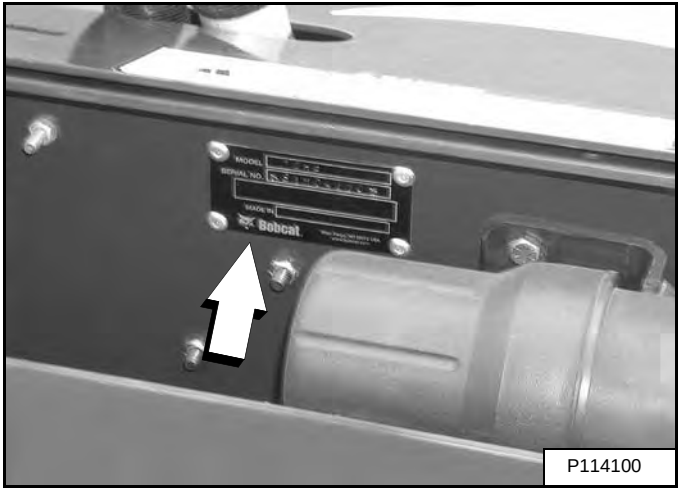
Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects and other reproductive harm.



SERIAL NUMBER LOCATION

Attachment Serial Number

Figure 1



Always use the serial number of the rotary cutter when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation [Figure 1].

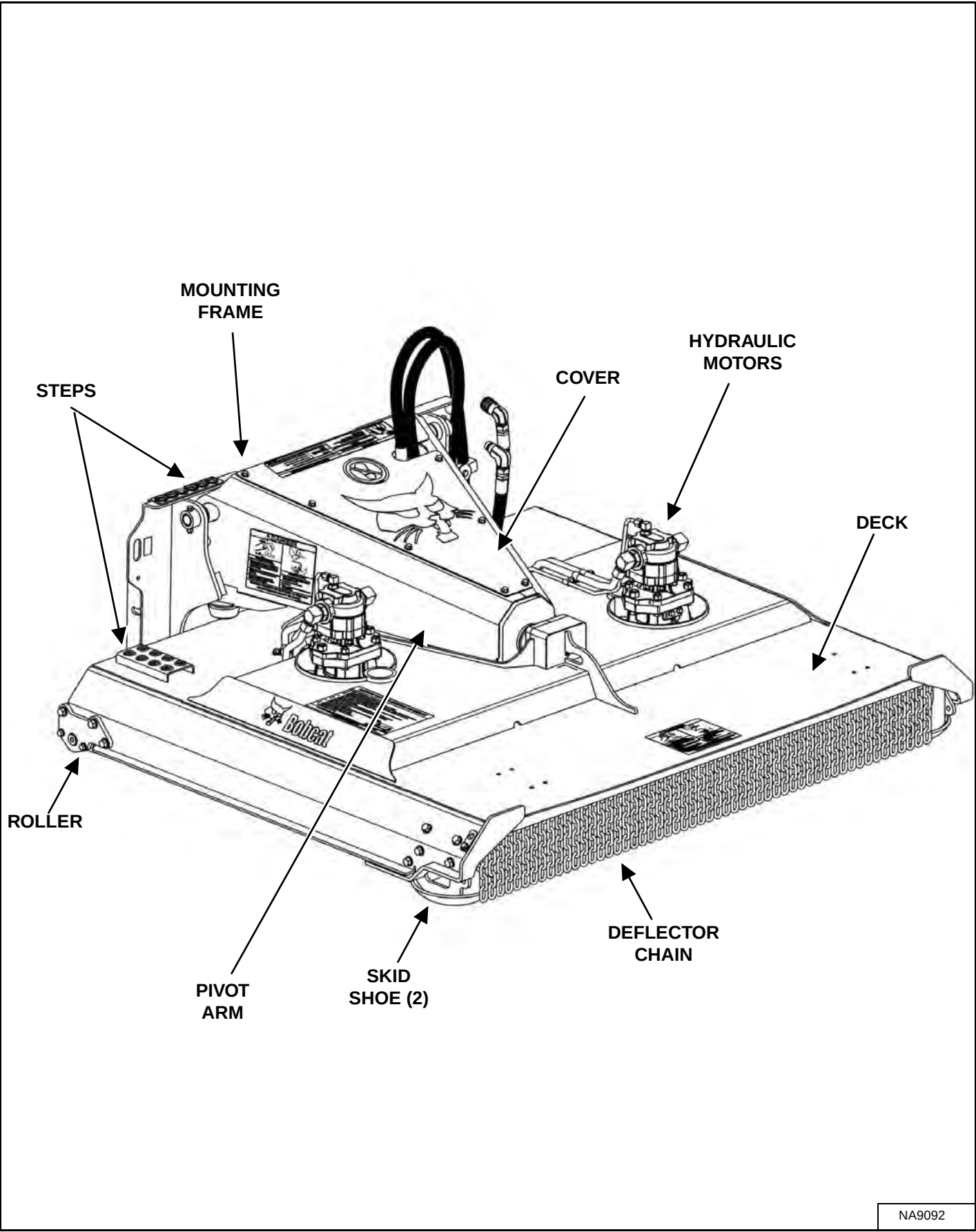
DELIVERY REPORT

Figure 2

The delivery report [Figure 2] contains a list of items that must be explained or shown to the owner or operator by the dealer when the Bobcat rotary cutter is delivered.

The delivery report must be reviewed and signed by the owner or operator and the dealer.

ATTACHMENT IDENTIFICATION



NA9092

FEATURES AND ACCESSORIES

Standard Items

The rotary cutter is equipped with the following Standard Items:

- The Rotary Cutter Is Supplied With Double-Edged Blades With A Cutting Height Of Approximately 76 mm (3.00 in)
- Available in 60, 72 and 80 Inch Cutting Widths
- Offset Dual Motor / Dual Blade Design
- Travels Forward And In Reverse
- Deck oscillation
- Smooth Under Deck
- Rear Roller and Front Skid Shoes
- Hydraulic Drive
- Front Deflector Chains
- Patented Blade Shutoff
- Over Flow Protection On Some Models

Optional Items

The following Optional Items are also available from your Bobcat dealer for the rotary cutter.

- Hydraulic Motor Covers
- Double-Edged Blades With A Cutting Height Of Approximately 102 mm (4.00 in)
- Front Roller Kit

MOTOR IDENTIFICATION		
ROTARY CUTTER SERIAL NUMBER PREFIX	MODEL	FLOW RANGE
B37K	66 in Standard Flow	57 - 91 L/min (15 - 24 U.S. gpm)
AYVY	72 in Standard Flow	57 - 98 L/min (15 - 26 U.S. gpm)
B376	66 in High Flow	91 - 136 L/min (24 - 36 U.S. gpm)
B375	72 in High Flow	91 - 151 L/min (24 - 40 U.S. gpm)
B377	80	



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SAFETY INSTRUCTIONS

Safe Operation Is The Operator's Responsibility



Operator must have instructions before operating the machine. Untrained operators can cause injury or death.

W-2001-0502



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

I-2019-0284



The signal word DANGER on the machine and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.

D-1002-1107



The signal word WARNING on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

W-2044-1107

The Bobcat machine and attachment must be in good operating condition before use.

Check all of the items on the Bobcat 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 and the attachment.

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Bobcat Company include the Delivery Report, 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 Bobcat 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 machine load capacities. 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 or the TOLL FREE phone number found in the *Call Before You Dig* section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, respiratory equipment, hearing protection, Special Applications Kits or a Front Window Guard are required for some work. See your Bobcat dealer about Bobcat safety equipment for your machine.

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SAFETY INSTRUCTIONS (CONT'D)

Use Safety Rules

- Read and follow instructions in the machine and the attachment's Operation & Maintenance Manual before operating.
- Check for underground lines before operating attachment (if applicable).
- In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.
- Check that the Bob-Tach™ levers are in the locked position and the wedges are fully engaged into the holes of the attachment (if applicable).
- Check that the attachment is securely fastened to the machine.
- Make sure all the machine controls are in the NEUTRAL position before starting the machine.
- Operate the attachment only from the operator's position.
- Operate the attachment according to the Operation & Maintenance Manual.
- When learning to operate the attachment, do it at a slow rate in an area clear of bystanders.
- DO NOT permit personnel to be in the work area when operating the machine and attachment.
- The attachment must be used ONLY on approved machines. See your Bobcat dealer for updated list of approved attachments for each machine model.
- DO NOT modify equipment or add attachments that are not approved by the manufacturer.
- DO NOT make any adjustments or repairs on the machine or attachment while the engine is running.
- Keep shields and guards in place. Replace if damaged.

Call Before You Dig



Call Before You Dig
Dial 811 (USA Only)
1-888-258-0808 (USA & Canada)

When you call, you will be directed to a location in your state / province, or city for information about buried lines (telephone, cable TV, water, sewer, gas, etc.).

Avoid Silica Dust



Cutting or drilling concrete containing sand or rock containing quartz may result in exposure to silica dust. Do not exceed Permissible Exposure Limits (PEL) to silica dust as determined by OSHA or other job site Rules and Regulations. Use a respirator, water spray or other means to control dust. Silica dust can cause lung disease and is known to the state of California to cause cancer.

SI ATT-0913

FIRE PREVENTION



Maintenance

The machine and some attachments have components that are at high temperatures under normal operating conditions. The primary source of high temperatures is the engine and exhaust system. The electrical system, if damaged or incorrectly maintained, can be a source of arcs or sparks.

Flammable debris (leaves, straw, etc.) must be removed regularly. If flammable debris is allowed to accumulate, it can cause a fire hazard. Clean often to avoid this accumulation. Flammable debris in the engine compartment is a potential fire hazard.

The operator's area, engine compartment and engine cooling system must be inspected every day and cleaned if necessary to prevent fire hazards and overheating.

All fuels, most lubricants and some coolant mixtures are flammable. Flammable fluids that are leaking or spilled onto hot surfaces or onto electrical components can cause a fire.

Operation

Do not use the machine where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases.

Electrical



Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part or wires that are loose or frayed.

Battery gas can explode and cause serious injury. Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting. Do not jump start or charge a frozen or damaged battery. Keep any open flames or sparks away from batteries. Do not smoke in battery charging area.

Hydraulic System

Check hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.

Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.

Fueling



Stop the engine and let it cool before adding fuel. No smoking! Do not refuel a machine near open flames or sparks. Fill the fuel tank outdoors.

Ultra Low Sulfur Diesel (ULSD) poses a greater static ignition hazard than earlier diesel formulations with higher Sulfur content. Avoid death or serious injury from fire or explosion. Consult with your fuel or fuel system supplier to ensure the delivery system is in compliance with fueling standards for proper grounding and bonding practices.

Starting

Do not use ether or starting fluids on any engine that has glow plugs. These starting aids can cause explosion and injure you or bystanders.

Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting.

Spark Arrester Exhaust System

The spark arrester exhaust system is designed to control the emission of hot particles from the engine and exhaust system, but the muffler and the exhaust gases are still hot.

Check the spark arrester exhaust system regularly to make sure it is maintained and working properly. Use the procedure in the Operation & Maintenance Manual for cleaning the spark arrester muffler (if equipped).

SI ATT-0913

FIRE PREVENTION (CONT'D)

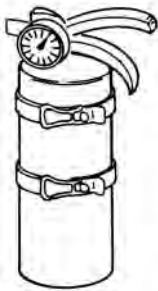
Welding And Grinding

Always clean the machine and attachment, disconnect the battery, and disconnect the wiring from the Bobcat controllers before welding. Cover rubber hoses, battery and all other flammable parts. Keep a fire extinguisher near the machine when welding.

Have good ventilation when grinding or welding painted parts. Wear dust mask when grinding painted parts. Toxic dust or gas can be produced.

Dust generated from repairing nonmetallic parts such as hoods, fenders or covers can be flammable or explosive. Repair such components in a well ventilated area away from open flames or sparks.

Fire Extinguishers

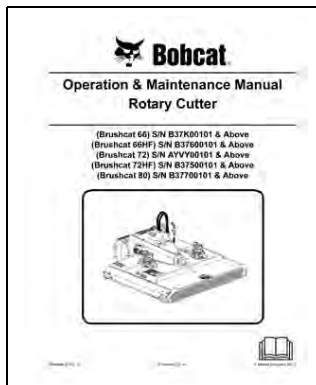


Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

PUBLICATIONS AND TRAINING RESOURCES

The following publications are also available for your Bobcat attachment. You can order from your Bobcat dealer.

For the latest information on Bobcat products and the Bobcat Company, visit our web site at www.bobcat.com



OPERATION & MAINTENANCE MANUAL

6990844enUS

Complete instructions on the correct operation and the routine maintenance of the Bobcat attachment.



SERVICE MANUAL

6990845enUS

Complete maintenance and overhaul instructions for your Bobcat attachment.



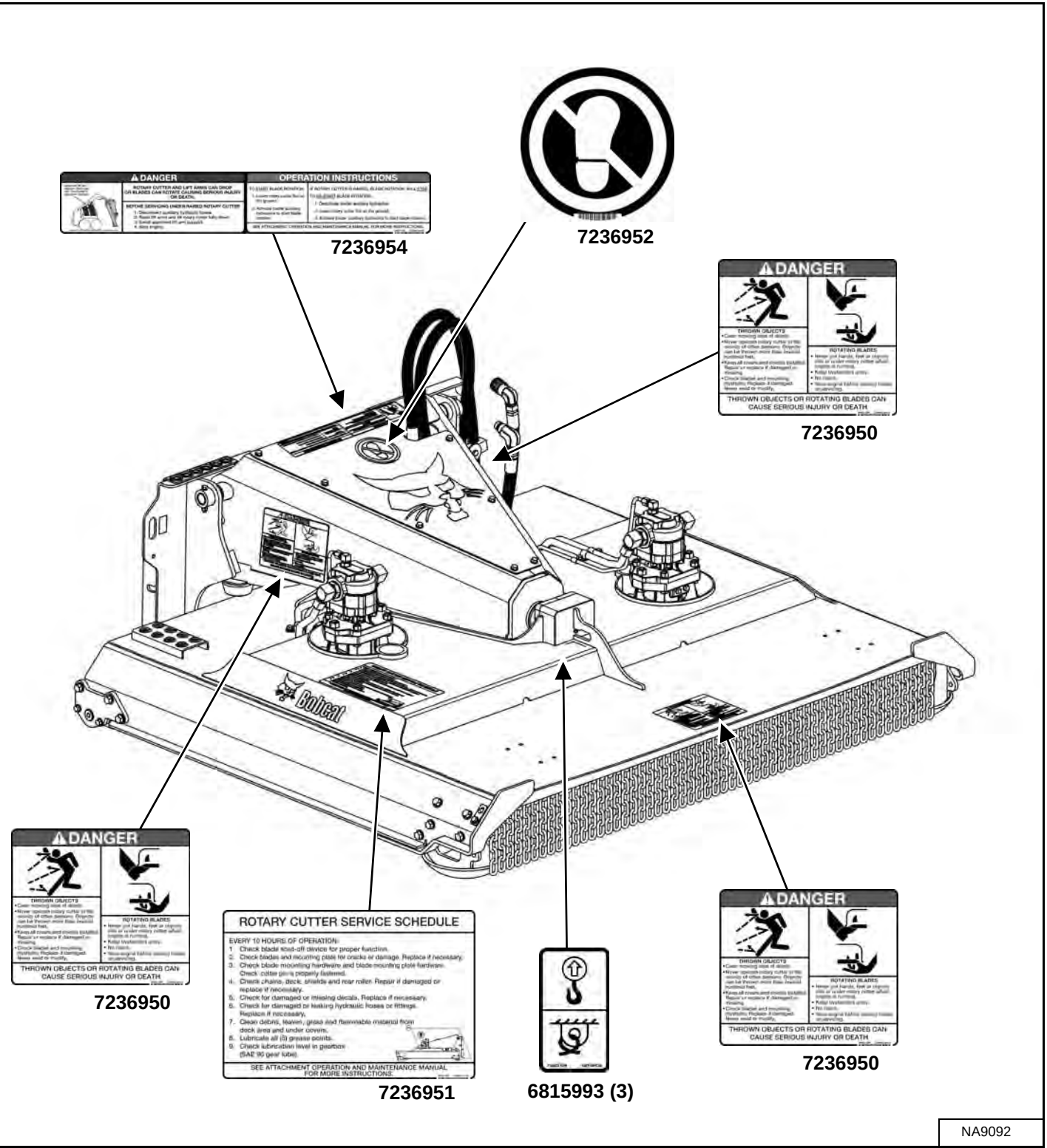
SAFETY MANUAL

#6900582

Safety Manual for operating and maintenance personnel. See your Bobcat dealer.

ATTACHMENT SIGNS (DECALS)

Follow the instructions on all the Attachment Signs (Decals) that are on the attachment. Replace any damaged attachment signs and be sure they are in the correct locations. Attachment signs are available from your Bobcat attachment dealer.



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OPERATING INSTRUCTIONS

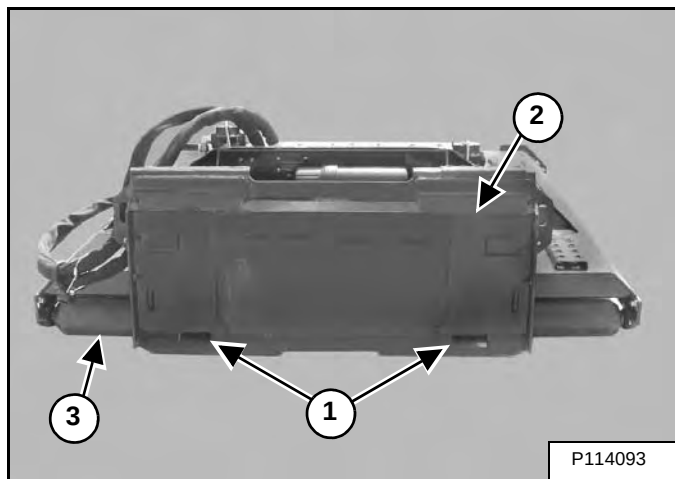
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DAILY INSPECTION

Attachment Mounting Frame

Figure 3



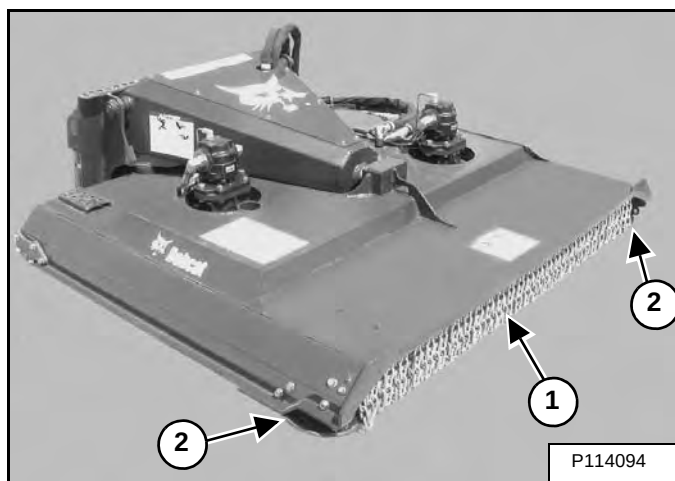
Inspect the Bob-Tach™ wedge mounts (Item 1), mounting flange (Item 2) [Figure 3], and all welds on the attachment mount for wear and damage each time the attachment is removed from the machine.

Inspect the roller (Item 3) [Figure 3].

Inspect all welds for cracks / damage. Check for loose or missing hardware.

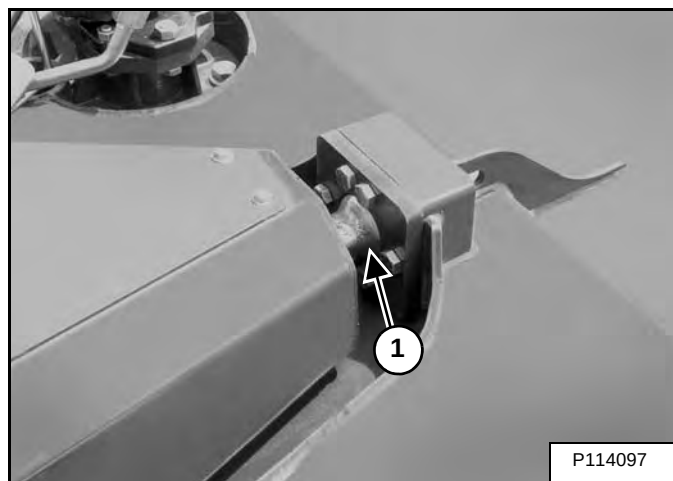
Rotary Cutter

Figure 4



Inspect the chain shield (Item 1) and skid plates (Item 2) [Figure 4].

Figure 5



Inspect the pivot (Item 1) [Figure 5] area and mounting hardware. Replace any damaged parts.

WARNING

AVOID INJURY OR DEATH

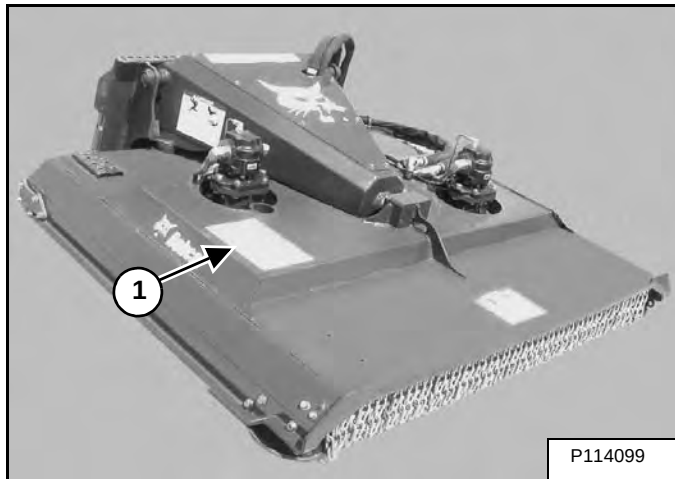
Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical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

W-2072-0807

DAILY INSPECTION (CONT'D)

Rotary Cutter (Cont'd)

Figure 6



Follow the rotary cutter service schedule (Item 1) [Figure 6] for routine maintenance of the rotary cutter.

Check the following items every **10 hours** of operation:

1. Check blade shut-off device for proper function.
2. Check blades and mounting plate for cracks or damage. Replace if necessary.
3. Check blade mounting hardware and blade mounting plate hardware. Check cotter pin is properly fastened.
4. Check chains, deck, shields and rear roller. Repair if damaged or replace if necessary.
5. Check for damaged or missing decals. Replace if necessary.
6. Check for damaged or leaking hydraulic hoses or fittings. Replace if necessary.
7. Clean debris, leaves, grass and flammable material from deck area and under covers.
8. Lubricate all five pivot points.
9. Check lubrication level in gearbox (SAE 90 gear lube).
10. Check that the steps are in good condition.

DAILY INSPECTION (CONT'D)

Bob-Tach

Hand Lever Bob-Tach

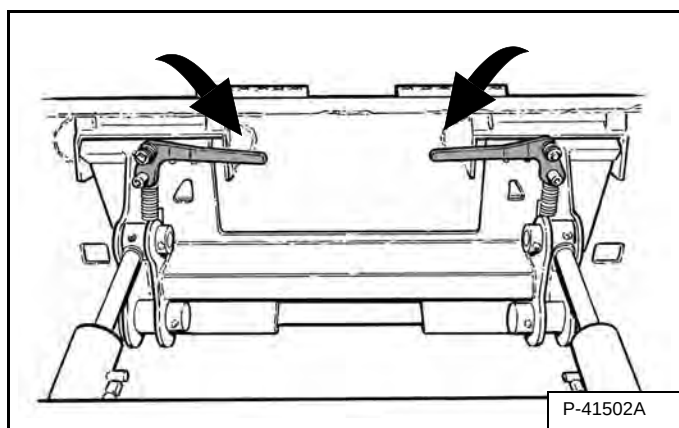
WARNING

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

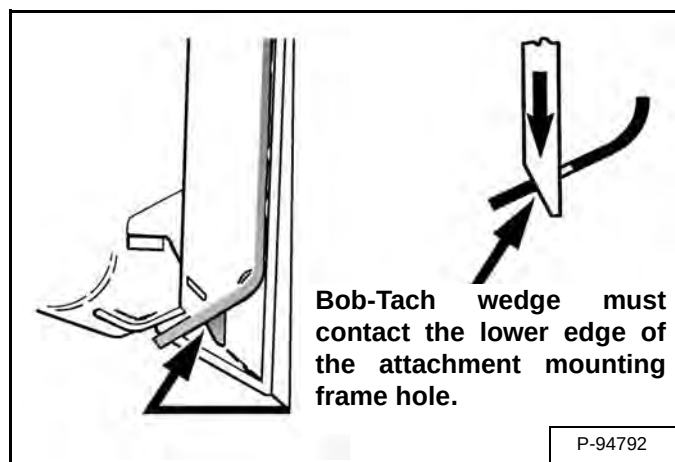
Figure 7



Push down on the Bob-Tach levers until they are fully engaged in the locked position **[Figure 7]** (wedges fully extended through the attachment mounting frame holes).

The levers and wedges must move freely **[Figure 7]**.

Figure 8



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach **[Figure 8]**.

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 attachment. (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.)

DAILY INSPECTION (CONT'D)

Bob-Tach (Cont'd)

Power 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 9

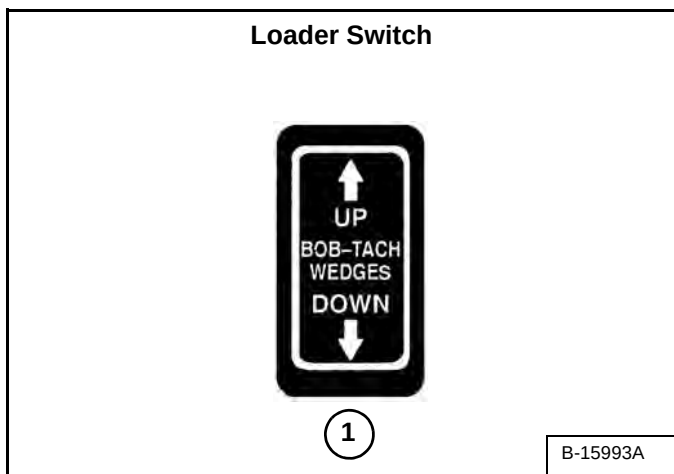
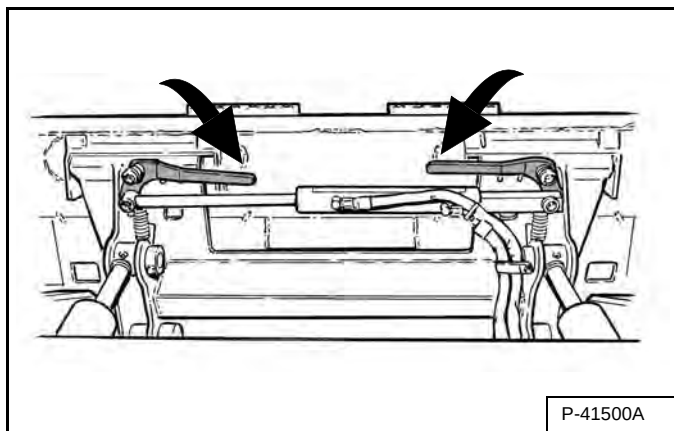
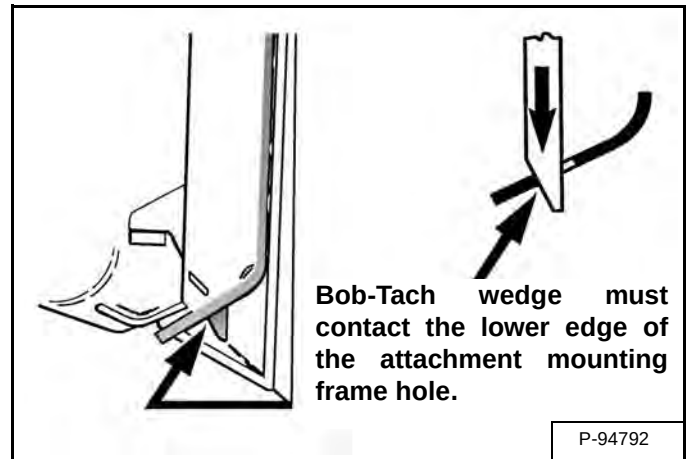


Figure 10



Push and hold the BOB-TACH "WEDGES DOWN" switch (Item 1) [Figure 9] until the levers are fully engaged in the locked position [Figure 10] (wedges fully extended through the attachment mounting frame holes).

Figure 11



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 11].

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 attachment. (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.)

DAILY INSPECTION (CONT'D)

Checking The Blade Shut-Off Device



AVOID INJURY OR DEATH

Never operate without blade shut-off device.

Never modify the blade shut-off device and check that it is operating properly.

W-2298-0398

Enter the machine and fasten seat belt. Lower the seat bar and start the engine.

1. Fully lower the lift arms and position the rotary cutter flat on the ground. Engage the auxiliary hydraulics. (See the machine's Operation & Maintenance Manual and Operator's Handbook for correct procedure.) The blades should rotate.
2. Raise the lift arms until the rotary cutter is slightly off of the ground. The blades must come to a complete stop in 7 seconds.
3. Fully lower the lift arms and position the rotary cutter flat on the ground. The blades must remain stopped.
4. Disengage the auxiliary hydraulics. Re-engage the auxiliary hydraulics to start blade rotation.

NOTE: Shut-off valve WILL NOT reset until the auxiliary hydraulics are disengaged.

NOTE: If the blades do not come to a complete stop when the rotary cutter is raised off the ground or the shut-off valve resets without the auxiliary hydraulics being disengaged, see you Bobcat dealer for service immediately.



THROWN OBJECTS WILL CAUSE SERIOUS INJURY OR DEATH

- Clear mowing area of debris.
- Never operate rotary cutter in vicinity of other persons. Objects can be thrown more than several hundred feet.
- Keep all chains and shields installed. Repair or replace if damaged or missing.
- Check blades and mounting hardware. Replace if damaged. Never weld or modify.

D-1015-1209

OPERATING PROCEDURE WITH LOADERS
Approved Loader Models And Requirements

Figure 12

LOADER MODELS	ROTARY CUTTER				
	66	66HF	72	72HF	80
A300			X*	X**	X**
A770			X*	X**	X**
S130	X*				
S150	X*				
S160	X*	X**			
S175	X*	X**			
S185	X*	X**	X*	X**	
S205	X*	X**	X*	X**	
S220			X*	X**	X**
S250			X*	X**	X**
S300			X*	X**	X**
S330			X*	X**	X**
S450	X*				
S510	X*		X*		
S530	X*		X*		
S550	X*	X**	X*	X**	
S570	X*	X**	X*	X**	
S590	X*	X**	X*	X**	
S630			X*	X**	X**
S650			X*	X**	X**
S740			X*	X**	X**
S750			X*	X**	X**
S770			X*	X**	X**
S850					X**
T140	X*				
T180	X*	X**	X*	X**	
T190	X*	X**	X*	X**	
T250					X**
T300					X**
T320					X**
T450	X*				
T550	X*	X**	X*	X**	
T590	X*	X**	X*	X**	
T630			X*	X**	X**
T650			X*	X**	X**
T740			X*	X**	X**
T750			X*	X**	X**
T770			X*	X**	X**
T870			X*	X**	X**

X = Approved

* = Must be operated in standard flow hydraulic mode.

** = Must be operated in high flow hydraulic mode.

The chart [Figure 12] shows the approved rotary cutter 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

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Approved Loader Models And Requirements (Cont'd)

Figure 13

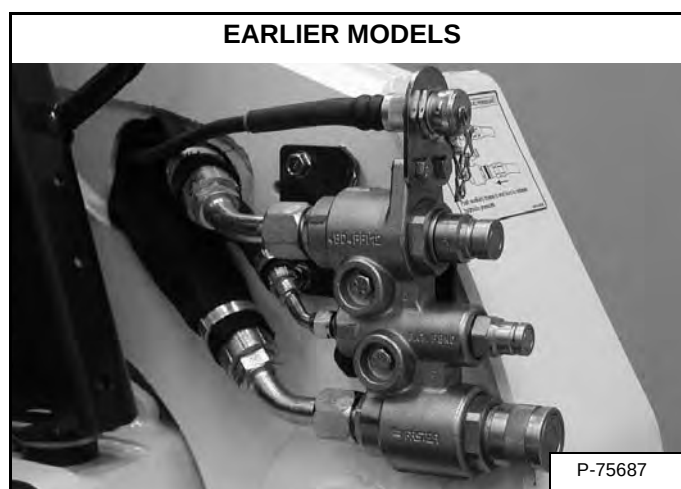
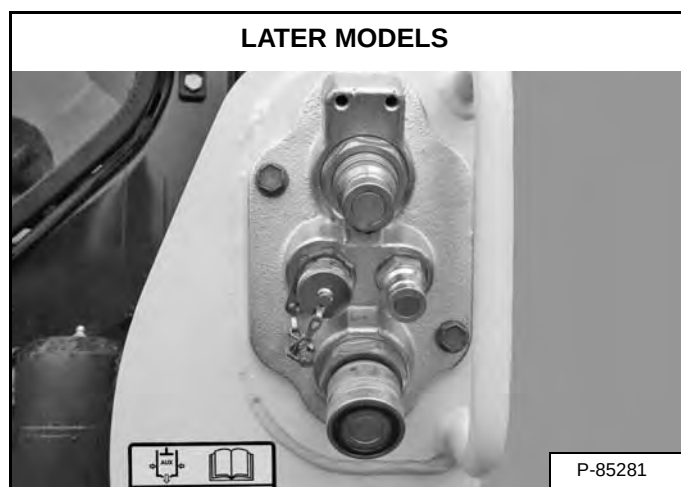


Figure 14



The loader must be equipped with front auxiliary hydraulics [Figure 13] or [Figure 14] for proper operation of the rotary cutter. See your Bobcat dealer for available kits.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Entering And Exiting The Loader

Entering

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.

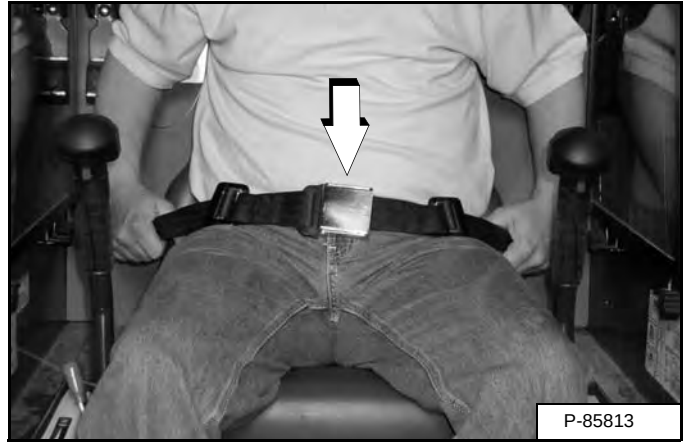
W-2261-0909

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.

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.

Set the engine speed control to low idle and engage the parking brake.

Stop the engine.

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

Remove the key (if equipped).

Exit the loader.



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.

W-2463-1110

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.

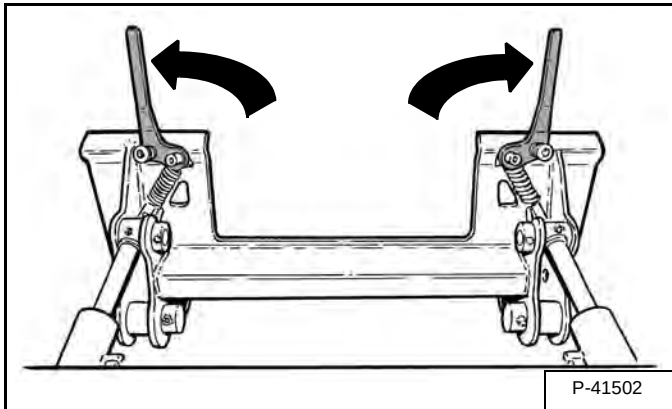
! WARNING

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

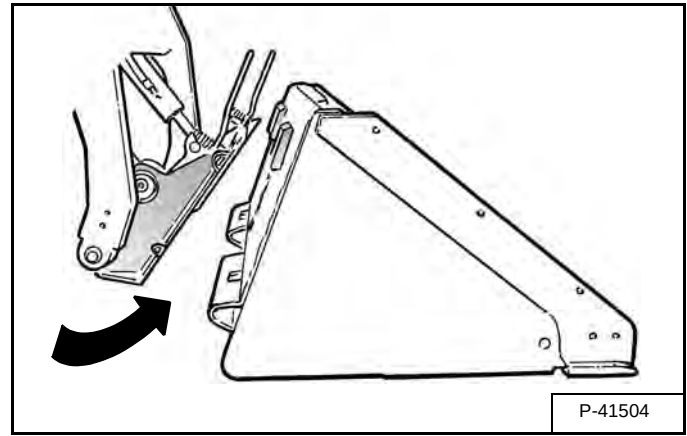


Pull the Bob-Tach levers up until they are fully raised (wedged fully raised) [Figure 18].

Enter the loader. (See Entering And Exiting The Loader on Page 30.)

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

Figure 19

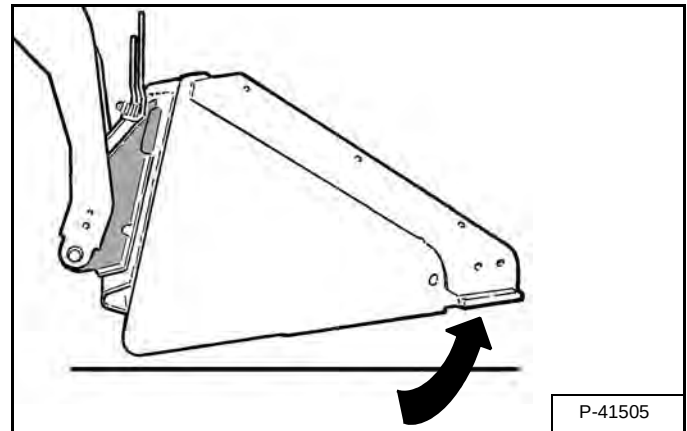


Lower the lift arms and tilt the Bob-Tach forward.

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 30.)

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Installation (Cont'd)

Hand Lever Bob-Tach (Cont'd)

WARNING

AVOID INJURY OR DEATH

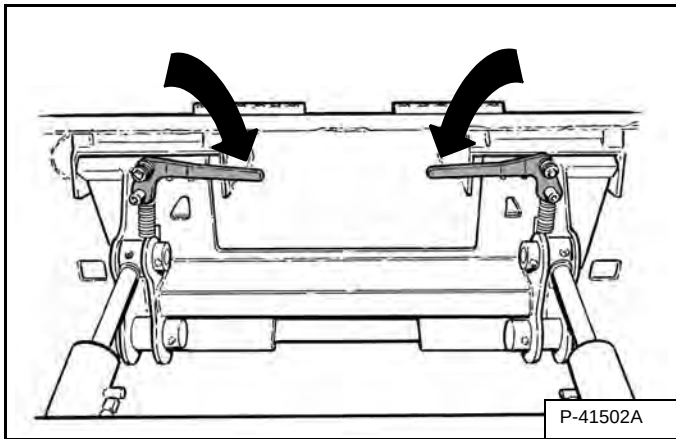
Before you leave the operator's seat:

- 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.

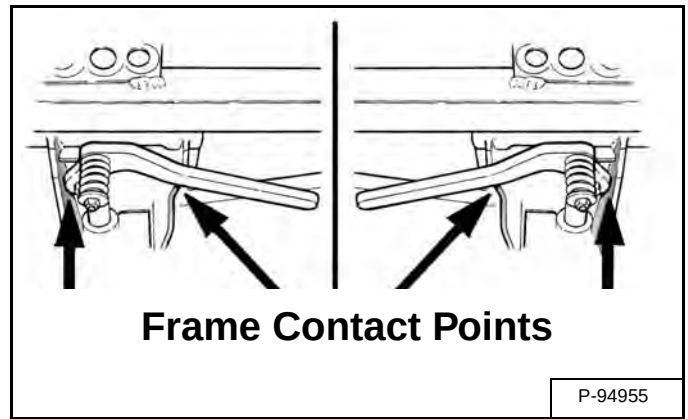
W-2463-1110

Figure 21



Push down on the Bob-Tach levers until they are fully engaged in the locked position [Figure 21] (wedges fully extended through the attachment mounting frame holes).

Figure 22



Both levers must contact the frame as shown when locked [Figure 22].

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

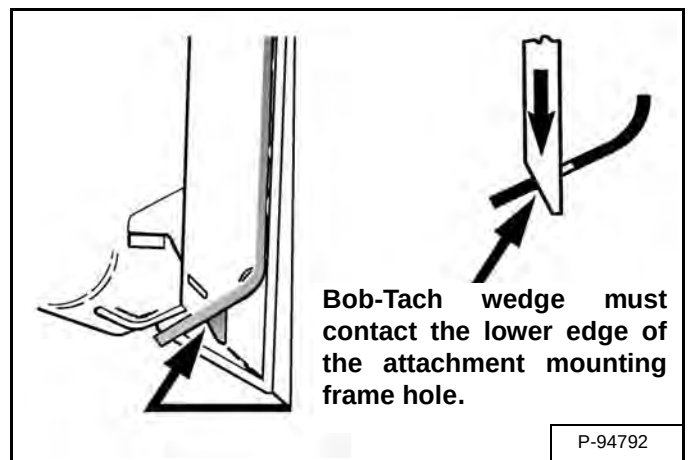
WARNING

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.

W-2715-0208

Figure 23



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 23].

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Installation (Cont'd)

Power Bob-Tach

! 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

This loader may be equipped with a Power Bob-Tach.

Enter the loader. (See Entering And Exiting The Loader on Page 30.)

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

Figure 24

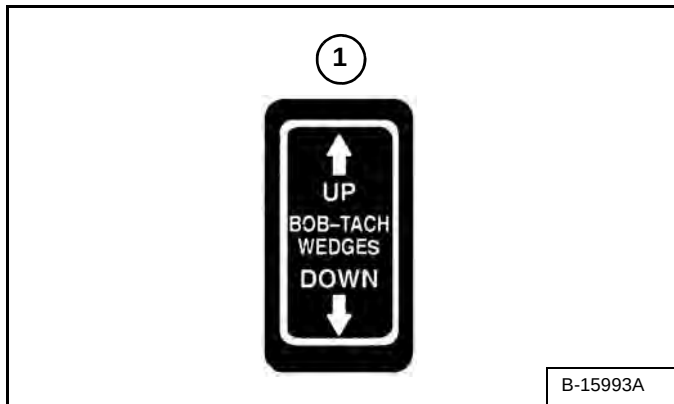
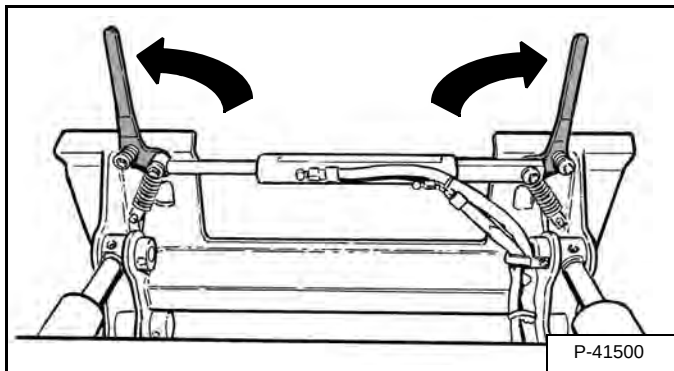
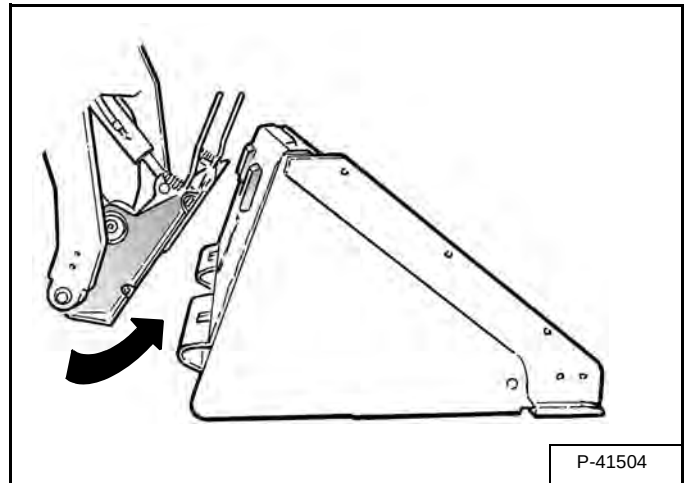


Figure 25



Push and hold the BOB-TACH "WEDGES UP" switch (Item 1) [Figure 24] until the levers are fully raised (wedges fully raised) [Figure 25].

Figure 26

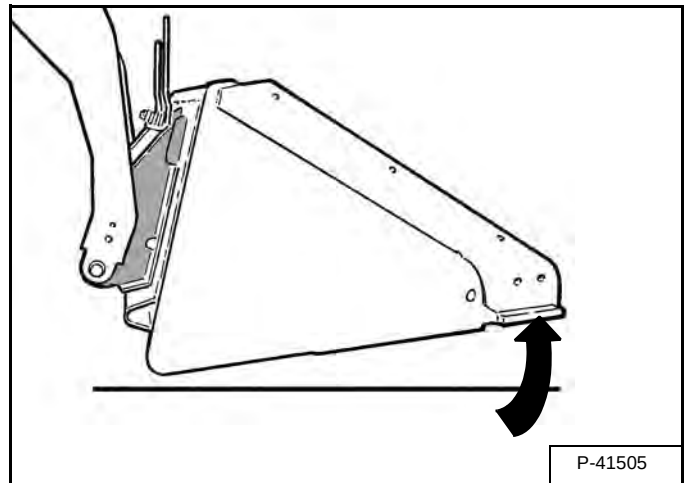


Lower the lift arms and tilt the Bob-Tach slightly forward.

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 26].

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

Figure 27



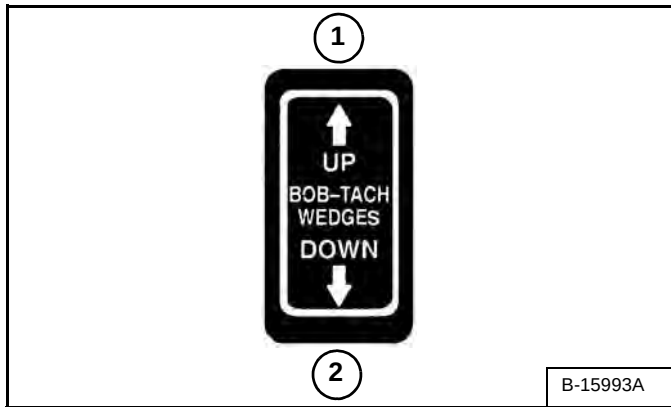
Tilt the Bob-Tach backward until the attachment is slightly off the ground [Figure 27]. This will cause the attachment mounting frame to fit up against the front of the Bob-Tach.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Installation (Cont'd)

Power Bob-Tach (Cont'd)

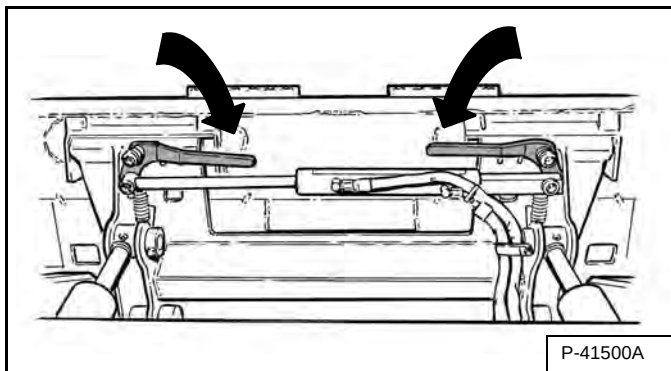
Figure 28



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”) to be sure both wedges are fully raised before installing the attachment.

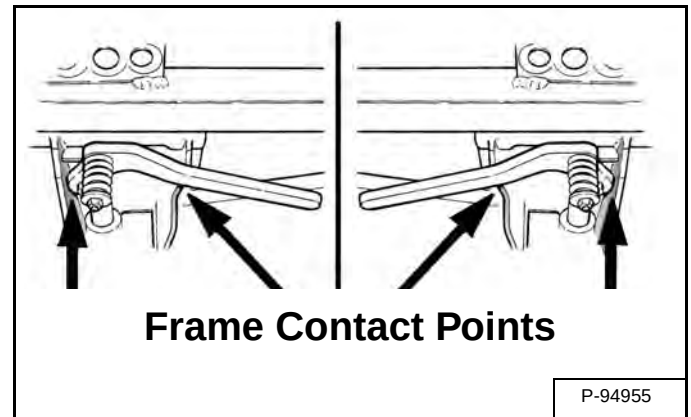
Push and hold the BOB-TACH “WEDGES UP” switch (Item 1) [Figure 28] until the levers are fully raised (wedges fully raised).

Figure 29



Push and hold the BOB-TACH “WEDGES DOWN” switch (Item 2) [Figure 28] until the levers are fully engaged in the locked position [Figure 29] (wedges fully extended through the attachment mounting frame holes).

Figure 30



Both levers must contact the frame as shown when locked [Figure 30].

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

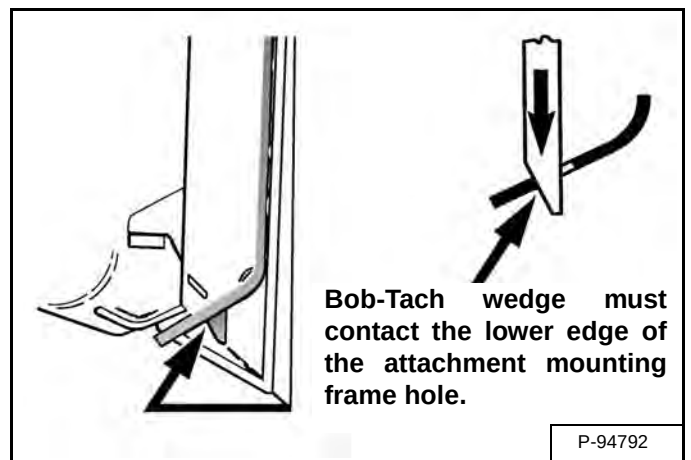
WARNING

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.

W-2715-0208

Figure 31



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 31].

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

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Installation (Cont'd)

Power Bob-Tach (Cont'd)

Stop the engine and exit the loader. (See Entering And Exiting The Loader on Page 30.)

WARNING

AVOID INJURY OR DEATH

Before you leave the operator's seat:

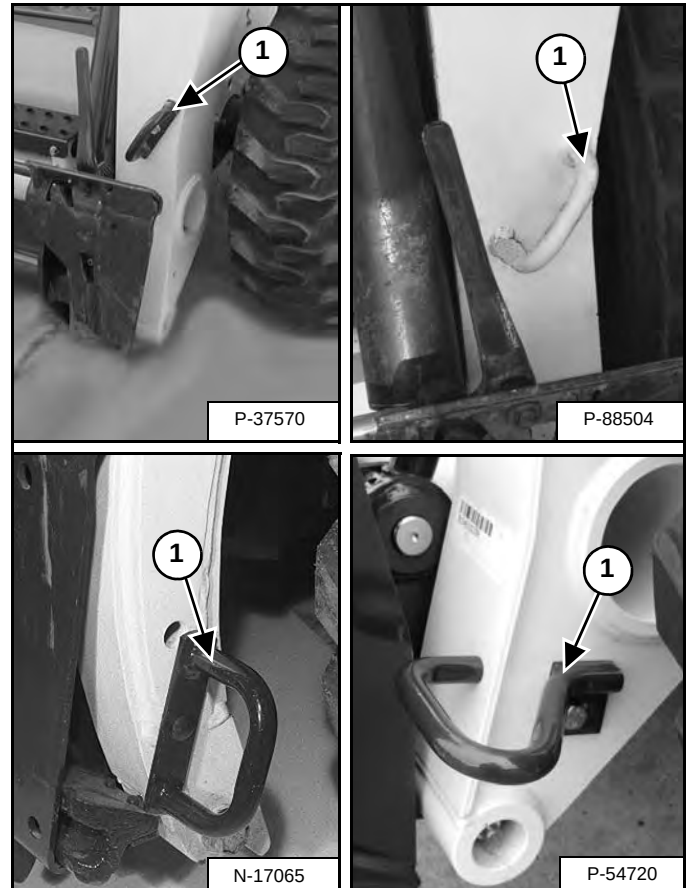
- Lower the lift arms and put the attachment flat on the ground.
- Stop the engine.
- Engage the parking brake.
- Raise the seat bar.
- Move all controls to the NEUTRAL / LOCKED position to make sure the lift, tilt and traction drive functions are deactivated.

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.

W-2463-1110

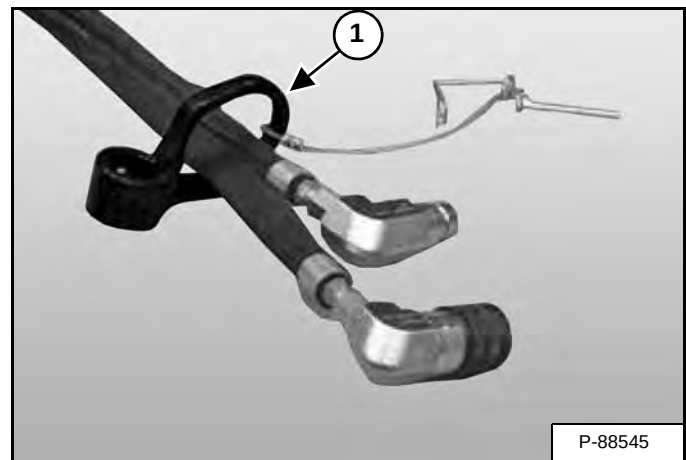
Hose Guide Installation (Earlier Version)

Figure 32



Hose Guide Installation (Later Version)

Figure 33



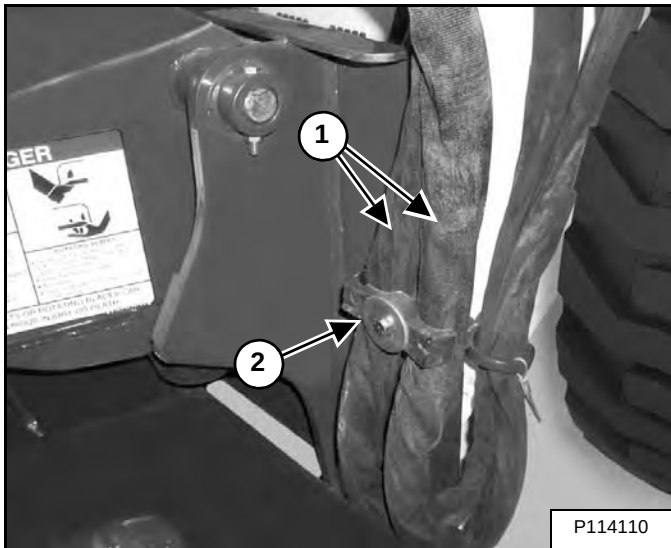
Various styles of hose guides (Item 1) [Figure 32] and [Figure 33] have been used. The following will show the proper hose routing using the latest version hose guide. Hose routing will be very similar for the early versions.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Installation (Cont'd)

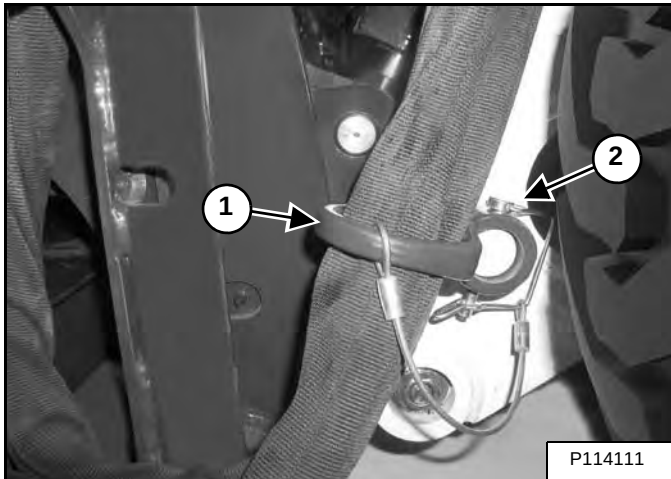
Hose Routing

Figure 34



Route the hoses (Item 1) through the hose clamp (Item 2) [Figure 34] on the rotary cutter frame. Leave the clamp mounting hardware loose at this time.

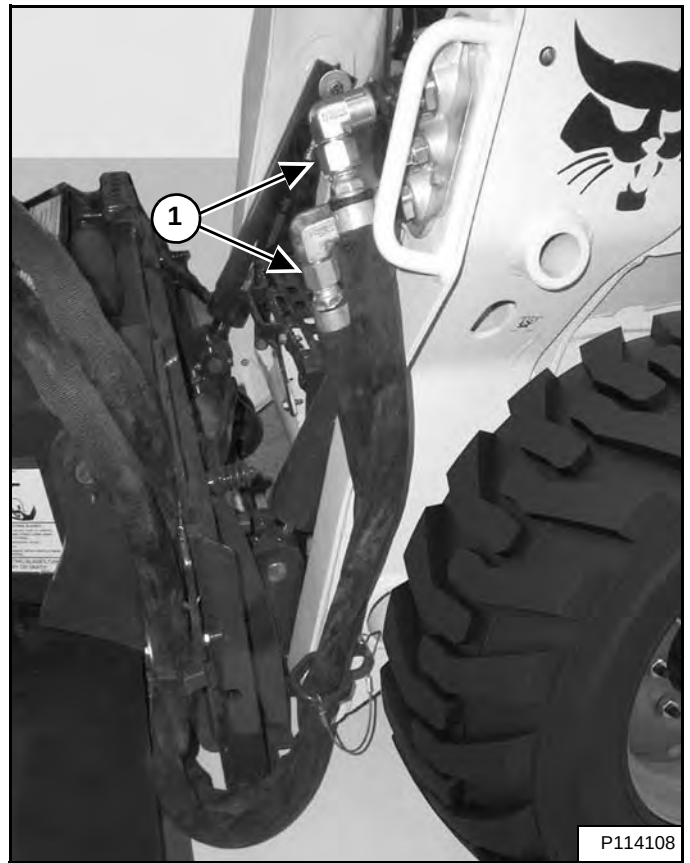
Figure 35



Later version hose guide: Route the hoses through the hose guide and install the hose guide (Item 1) onto the mounting post on the lift arm. Install the retainer pin (Item 2) [Figure 35] to secure the hose guide to the lift arm.

Early version hose guide: Route the hoses through the hose guide on the lift arm.

Figure 36



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

Connect quick couplers to the loader. (See Hydraulic Quick Couplers on Page 39.)

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

NOTE: It may be necessary to loosen the quick couplers on the attachment hydraulic hoses (Item 1) [Figure 36] to remove any twists in the hoses.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Installation (Cont'd)

Hose Routing (Cont'd)

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 loader. 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 loader or attachment.

Tighten the attachment quick coupler connections while the couplers are still connected to the loader. 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 loader.

After the hydraulic hoses are routed correctly, tighten the clamp mounting hardware (Item 2) **[Figure 34]**.

Enter the loader. (See Entering And Exiting The Loader on Page 30.)

Start the engine and release the parking brake (if equipped).

Engage auxiliary hydraulics. (See the loader'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.

Hydraulic Quick Couplers

IMPORTANT

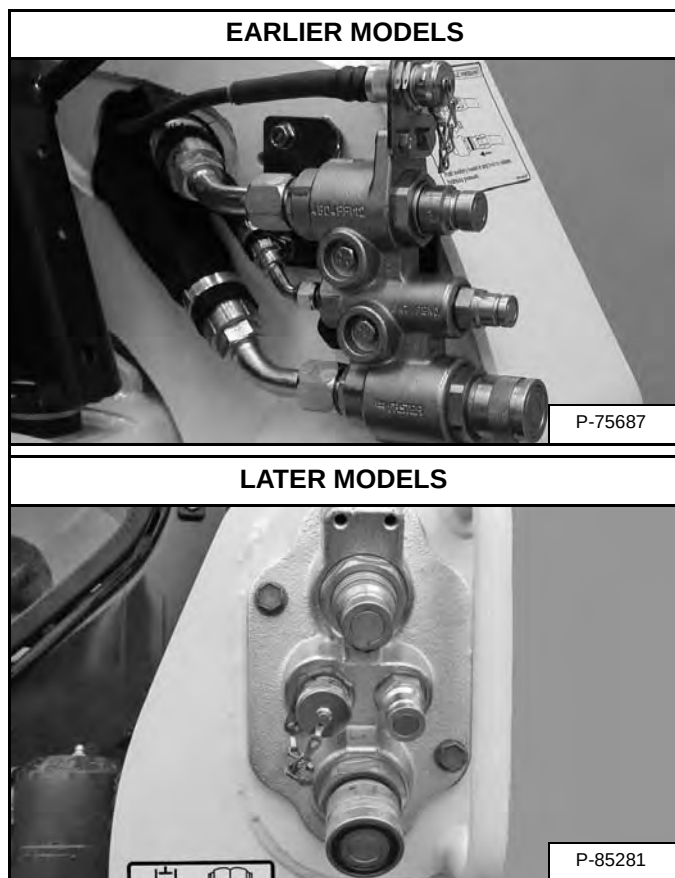
- Thoroughly clean the quick couplers before making connections. Dirt can quickly damage the system.
- Contain and dispose of any oil leakage in an environmentally safe manner.

I-2278-0608

New attachments and new loaders 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 loader. See your Bobcat dealer for parts information.

NOTE: Make sure the quick couplers are fully engaged. If the quick couplers do not fully engage, check to see that the couplers are the same size and type.

Figure 37



WARNING

AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

W-2220-0396

To Connect:

Remove any dirt or debris from the surface of both the male and female couplers, and from the outside diameter of the male coupler. Visually check the couplers for corroding, cracking, damage, or excessive wear. If any of these conditions exist, the coupler(s) must be replaced [Figure 37].

Install the male coupler into the female coupler. Full connection is made when the ball release sleeve slides forward on the female coupler.

NOTE: Check that the attachment hydraulic hoses are not twisted or contacting any moving parts of the attachment or loader. (See Hose Routing on Page 37.) for proper adjustment.

To Disconnect:

Relieve hydraulic pressure. (See the loader's Operation & Maintenance Manual and Operator's Handbook for correct procedure.)

Push the couplers together, retract the sleeve on the female coupler until the couplers disconnect.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Hydraulic Flow Information

NOTE: The shut-off valve **WILL NOT** reset until the auxiliary hydraulics are disengaged.

For 66 and 72 rotary cutters:

These rotary cutters are equipped with a flow control regulator valve. DO NOT use these rotary cutters with the loader in high flow hydraulic mode. If hydraulic flow exceeds approximately 102 L/min (27 U.S. gpm), the flow control regulator valve will shut off the rotary cutter motor. If this happens, stop the hydraulic flow to the rotary cutter for a few seconds, this will reset the flow control regulator valve. Restart hydraulic flow and the rotary cutter blade rotation will restart.

For 66HF, 72HF and 80 rotary cutters:

These rotary cutters can be used with the hydraulics in either standard flow or high flow mode. The rotary cutter blade rpm will be higher in high flow mode.



WARNING

AVOID INJURY OR DEATH

Never operate without blade shut-off device.

Never modify the blade shut-off device and check that it is operating properly.

W-2298-0398

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Control Functions

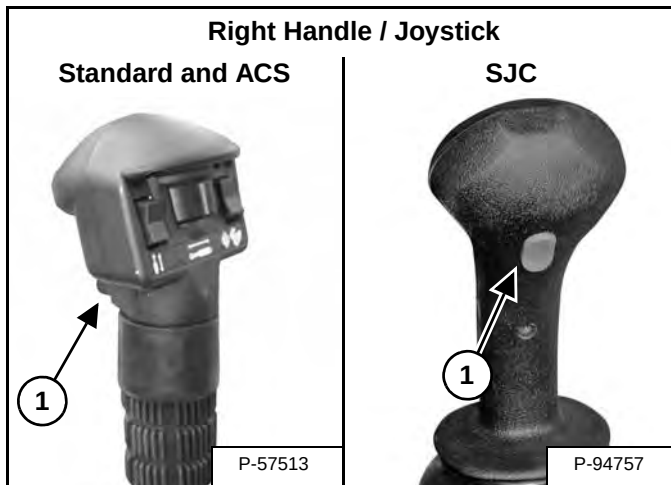
Enter the loader. Fasten the seat belt, lower the seat bar and start the engine. Release the parking brake.

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

NOTE: Auxiliary hydraulics must be activated prior to attachment operation.

NOTE: For rotary cutters that can use high flow, activate the high flow auxiliary hydraulics. (See the loader's Operation & Maintenance Manual and Operator's Handbook for correct procedure.)

Figure 38



Press the switch (Item 1) [Figure 38] to start blade rotation. Press the switch a second time to stop blade rotation.

Increase engine speed to full rpm, and drive the loader forward into the work area.

NOTE: If the rotary cutter is raised too high, blade rotation will stop.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Operation With The Loader

IMPORTANT

DO NOT operate Rotary Cutter when excessive vibration is present. Serious damage can result. Check blade and gearbox.

I-2161-0398

The ground condition and the type of brush being cut will determine the best cutting procedure and ground speed. The rotary cutter is designed to cut short or tall grass and brush up to 76 mm (3.00 in) in diameter.

Clear the cutting area of obstructions which might be picked up and thrown.

! WARNING

AVOID INJURY OR DEATH

Never operate with missing front chain shield or guards.

W-2300-0198

Enter the loader, fasten the seat belt, lower the seat bar and start the engine.

Release the parking brake.

Carry the rotary cutter low to the ground when driving.

Figure 39



With engine at low rpm, lower the lift arm(s) fully and tilt the Bob-Tach forward until the rotary cutter is flat on the ground [Figure 39].

Raise the lift arms slightly to allow the deck to oscillate. (When the lift arms are raised slightly, the Bob-Tach may need to be tilted forward slightly so the skid shoes are contacting the ground.)

NOTE: The *float* position is not recommended for this rotary cutter.

! DANGER

ROTATING BLADES WILL CAUSE SERIOUS INJURY OR DEATH

- **Never** put hands, feet or objects into or under rotary cutter when engine is running.
- **Keep** bystanders away.
- **No** riders.
- **Stop** engine before servicing.

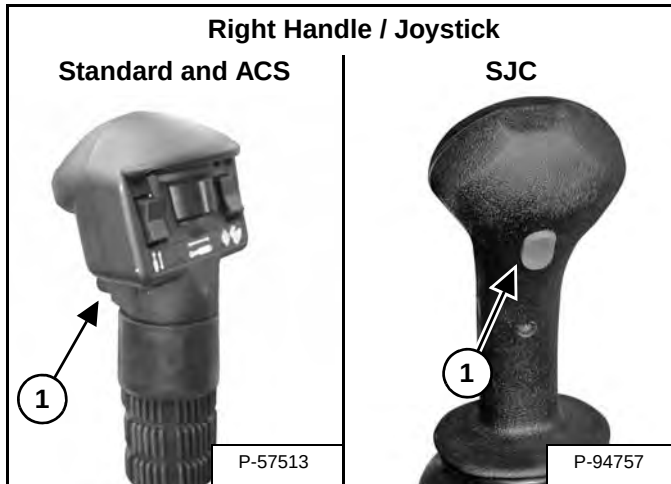
D-1016-1209

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Operation With The Loader (Cont'd)

To Start Rotary Cutter Rotation

Figure 40



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

NOTE: For rotary cutters that can use high flow, activate the high flow auxiliary hydraulics. (See the loader's Operation & Maintenance Manual and Operator's Handbook for correct procedure.)

Press the switch (Item 1) [Figure 40] on the right steer lever to start blade rotation.

Increase engine speed to full rpm.

Figure 41



Drive the loader forward into the work area [Figure 41].

NOTE: If the rotary cutter is raised too high, blade rotation will stop.



DANGER

THROWN OBJECTS WILL CAUSE SERIOUS INJURY OR DEATH

- Clear mowing area of debris.
- Never operate rotary cutter in vicinity of other persons. Objects can be thrown more than several hundred feet.
- Keep all chains and shields installed. Repair or replace if damaged or missing.
- Check blades and mounting hardware. Replace if damaged. Never weld or modify.

D-1015-1209



WARNING

AVOID INJURY OR DEATH

Never allow riders on the rotary cutter.

W-2295-0198

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Operation With The Loader (Cont'd)

Restarting Rotary Cutter Rotation

Figure 42

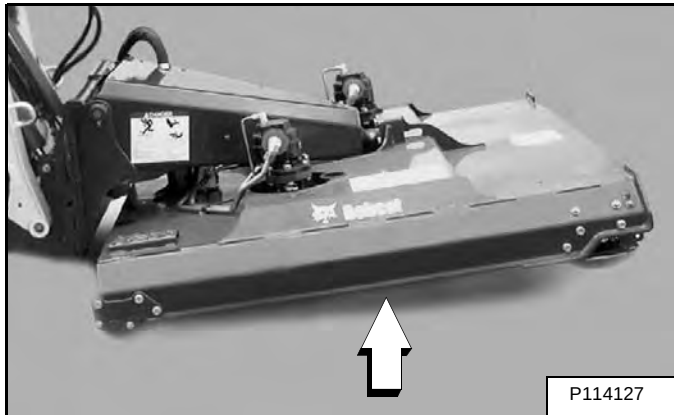
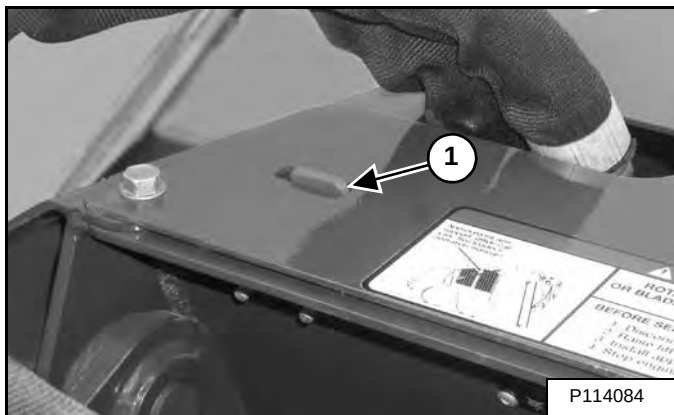


Figure 43



When the lift arms are raised too high, the blade shut-off device will **stop the blades from rotating**. If this happens, deactivate the auxiliary hydraulics and lower the rotary cutter flat on the ground. **Reactivate the auxiliary hydraulics** to restart blade rotation.

NOTE: When the rotary cutter is positioned on the ground in the operating position, the blade shut-off device indicator (Item 1) [Figure 43] will not be visible above the cover. The indicator will be visible when the lift arms are raised too high and the rotary cutter rear roller is not contacting the ground.

NOTE: The shut-off valve **WILL NOT** reset until the auxiliary hydraulics are disengaged.

Tips / Recommendations

Figure 44



Tilting the Bob-Tach backward slightly to raise the front of the rotary cutter may help while driving forward into thick brush and when turning [Figure 44]. Tilt rotary cutter down to start cutting.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Removal

Hand Lever Bob-Tach

Lower the lift arms and put the attachment flat on the ground. Lower or close the hydraulic equipment (if equipped).

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 loader.

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

Exit the loader. (See Entering And Exiting The Loader on Page 30.)

WARNING

AVOID INJURY OR DEATH

Before you leave the operator's seat:

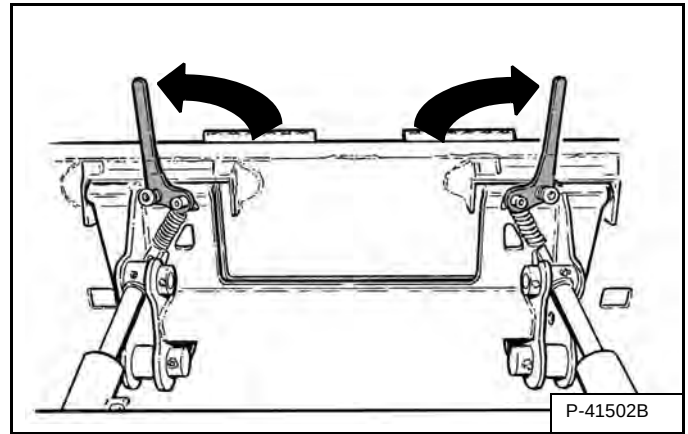
- Lower the lift arms and put the attachment flat on the ground.
- Stop the engine.
- Engage the parking brake.
- Raise the seat bar.
- Move all controls to the NEUTRAL / LOCKED position to make sure the lift, tilt and traction drive functions are deactivated.

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.

W-2463-1110

Disconnect auxiliary hydraulic hoses (if applicable). (See Hydraulic Quick Couplers on Page 39.)

Figure 45



Pull the Bob-Tach levers up [Figure 45] until they are fully raised (wedges fully raised).

WARNING

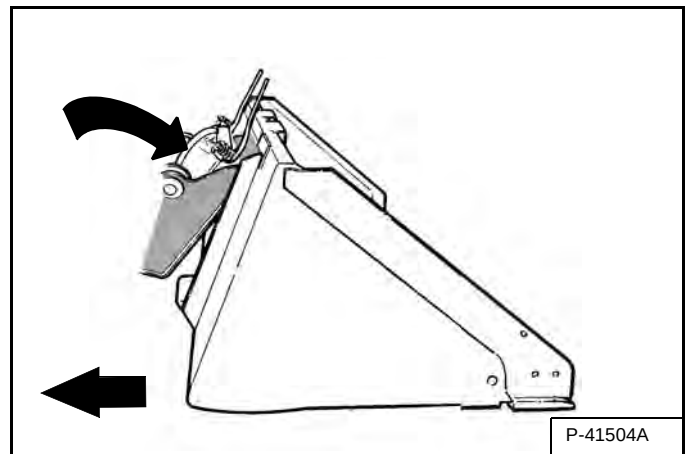
Bob-Tach levers have spring tension. Hold lever tightly and release slowly. Failure to obey warning can cause injury.

W-2054-1285

Enter the loader. (See Entering And Exiting The Loader on Page 30.)

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

Figure 46



Tilt the Bob-Tach forward and drive the loader backward, away from the attachment [Figure 46].

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Removal (Cont'd)

Power Bob-Tach

Lower the lift arms and put the attachment flat on the ground. Lower or close the hydraulic equipment (if equipped).

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 loader.

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

Exit the loader. (See Entering And Exiting The Loader on Page 30.)

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.

W-2463-1110

Disconnect auxiliary hydraulic hoses (if applicable). (See Hydraulic Quick Couplers on Page 39.)

Enter the loader. (See Entering And Exiting The Loader on Page 30.)

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

Figure 47

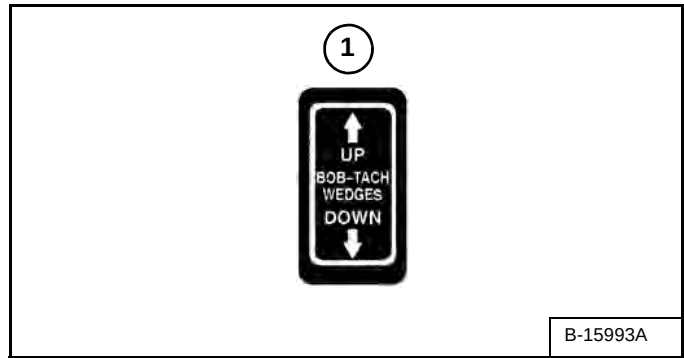
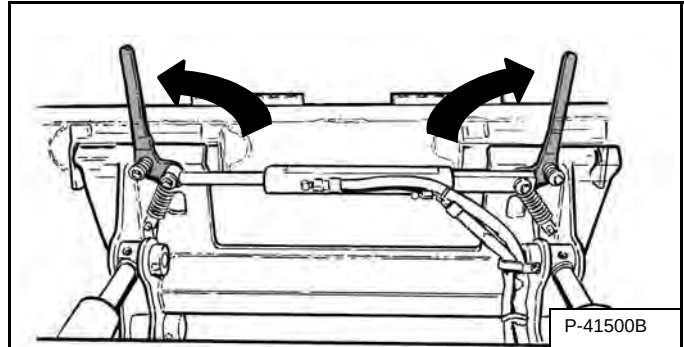
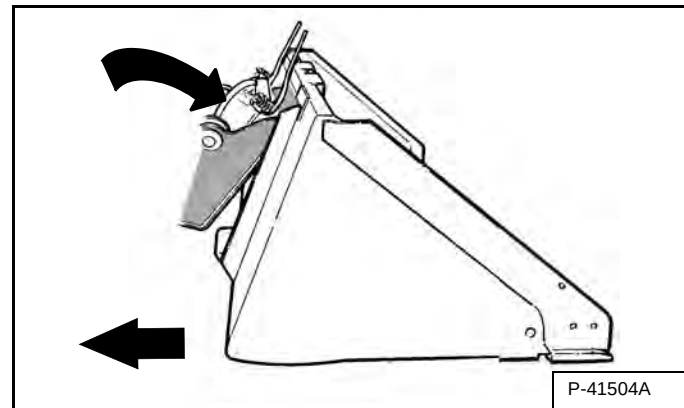


Figure 48



Push and hold the BOB-TACH "WEDGES UP" switch (Item 1) [Figure 47] (Front Panel) until the levers [Figure 48] are fully raised (wedges fully raised).

Figure 49



Tilt the Bob-Tach forward and drive the loader backward, away from the attachment [Figure 49].

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.

OPERATING PROCEDURE WITH VERSAHANDLERS

Approved VersaHANDLER Models And Requirements

Figure 50

VERSAHANDLER MODEL	ROTARY CUTTER		
	72	72HF	80
V417	X	X	X

X = Approved

The chart [Figure 50] shows the approved rotary cutter model for the V417 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.

W-2662-0108

Figure 51



The VersaHANDLER must be equipped with front auxiliary hydraulics [Figure 51] for proper operation of the rotary cutter. See your Bobcat dealer for available kits.

OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

Entering And Exiting The VersaHANDLER

Entering

WARNING

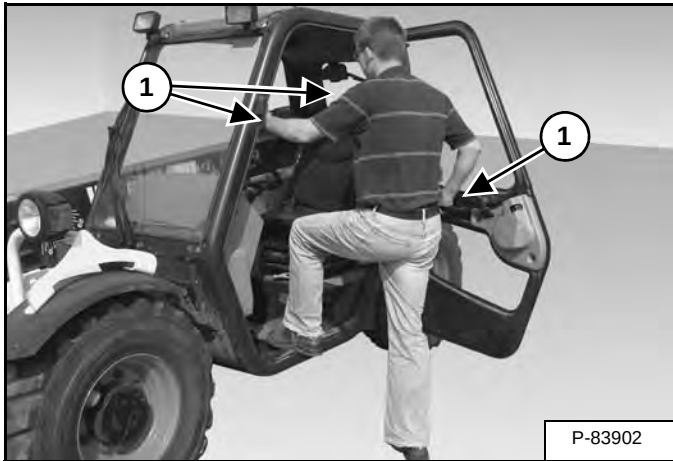
AVOID INJURY OR DEATH

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 52



Use the hand grabs (Item 1) [Figure 52] to enter and exit the operator cab.

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

Figure 53



Fasten seat belt and lower the restraint bar (Item 1) [Figure 53] (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.

OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

Entering And Exiting The VersaHANDLER (Cont'd)

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.

! WARNING

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

Installation

Hand Lever Bob-Tach

NOTE: The illustrations and instructions provided explain how to install a bucket attachment on to a VersaHANDLER. 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.

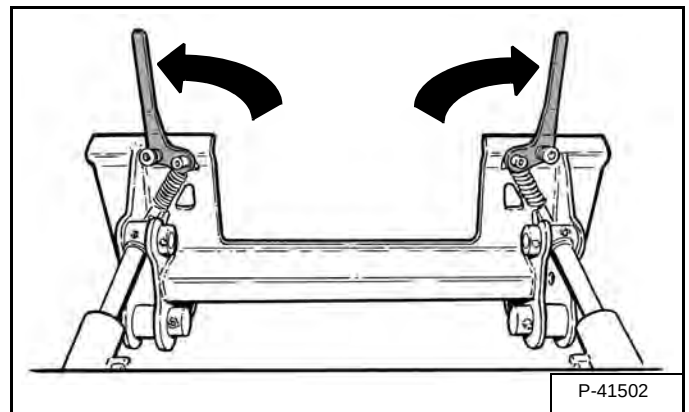
! WARNING

The signal word **WARNING** on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

W-2044-1107

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

Figure 54



Pull the Bob-Tach levers up until they are fully raised (wedges fully raised) [Figure 54].

Enter the VersaHANDLER. (See Entering And Exiting The VersaHANDLER on Page 48.)

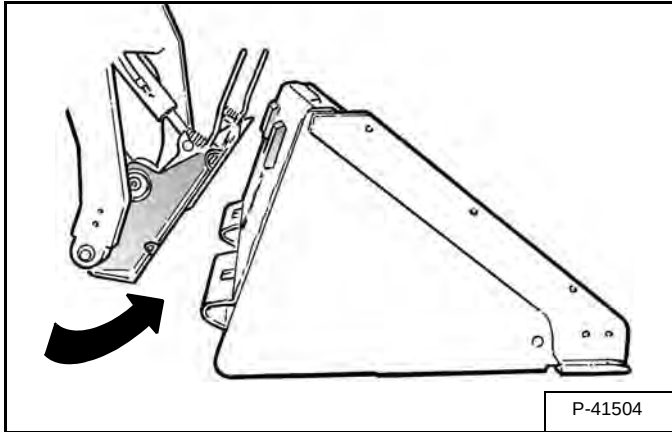
Start the engine and release the parking brake.

OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

Installation (Cont'd)

Hand Lever Bob-Tach (Cont'd)

Figure 55

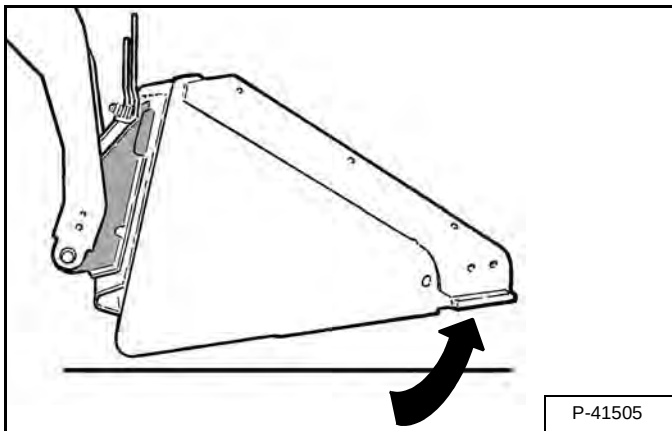


Lower the boom and tilt the Bob-Tach forward.

Drive the VersaHANDLER slowly forward until the top edge of the Bob-Tach is completely under the top flange of the attachment mounting frame [Figure 55].

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

Figure 56



Tilt the Bob-Tach backward until the attachment is slightly off the ground [Figure 56]. 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 VersaHANDLER. (See Entering And Exiting The VersaHANDLER on Page 48.)

WARNING

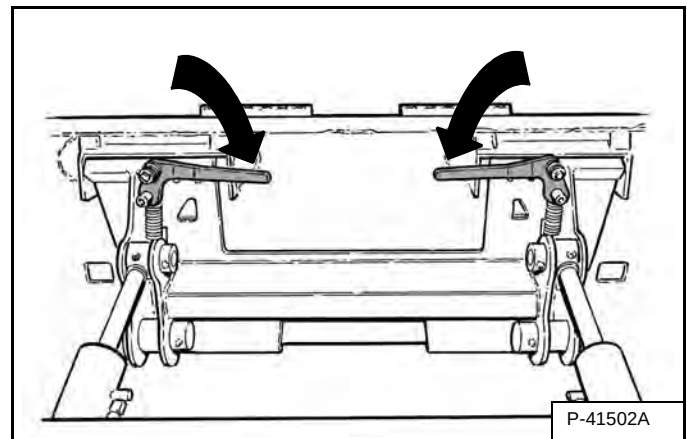
Before you leave the operator's position:

- 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.

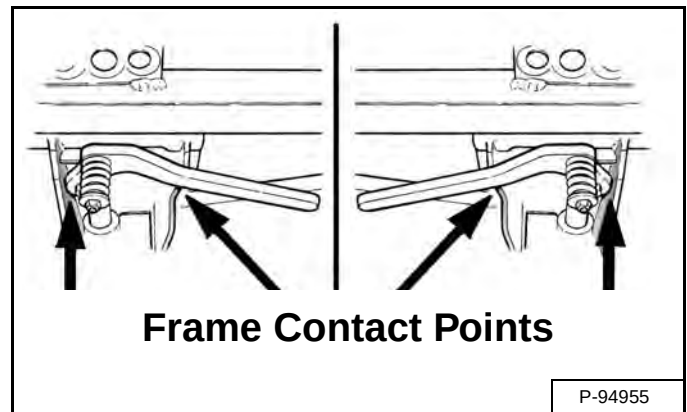
W-2637-0607

Figure 57



Push down on the Bob-Tach levers until they are fully engaged in the locked position [Figure 57] (wedges fully extended through the attachment mounting frame holes).

Figure 58



Both levers must contact the frame as shown when locked [Figure 58].

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

OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

Installation (Cont'd)

Hand Lever Bob-Tach (Cont'd)

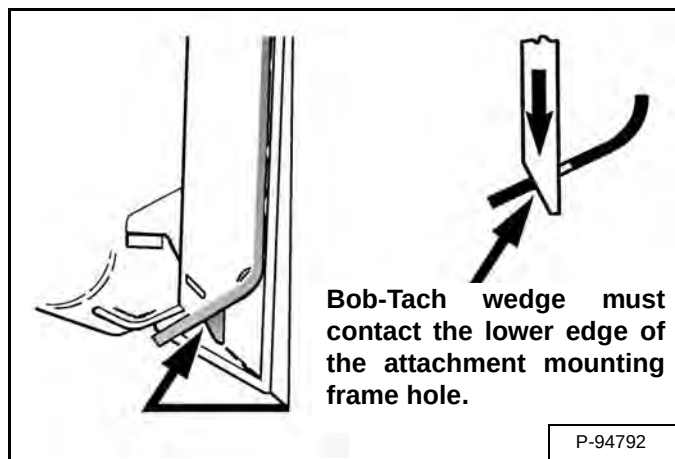
WARNING

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

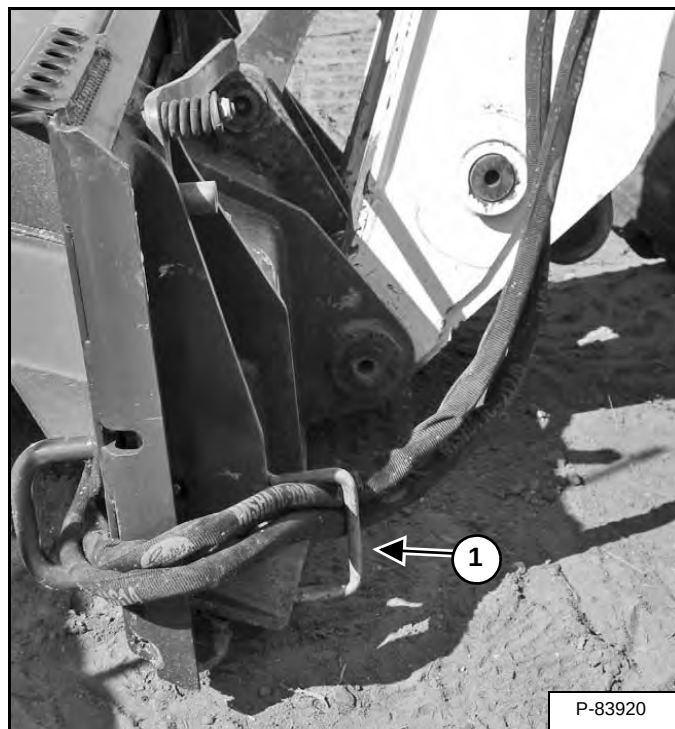
Figure 59



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach **[Figure 59]**.

Hose Routing

Figure 60



Route the hydraulic hoses through the hose guide (Item 1) **[Figure 60]** and connect quick couplers to the VersaHANDLER. (See Hydraulic Quick Couplers on Page 53.)

OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

Installation (Cont'd)

For First Time Installation

New attachments and new VersaHANDLER's 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 VersaHANDLER. 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 VersaHANDLER engine off and using the hose guides (if equipped), route the attachment hydraulic hoses to the VersaHANDLER. Connect the attachment hydraulic quick couplers to the VersaHANDLER couplers. (See Hydraulic Quick Couplers on Page 53.)

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

Enter the VersaHANDLER. (See Entering And Exiting The VersaHANDLER on Page 48.)

Start the engine and release the parking brake (if equipped).

Engage auxiliary hydraulics. (See the VersaHANDLER'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.

Hydraulic Quick Couplers

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

New attachments and new VersaHANDLERS 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 VersaHANDLER. See your Bobcat dealer for parts information.

NOTE: Make sure the quick couplers are fully engaged. If the quick couplers do not fully engage, check to see that the couplers are the same size and type.

Figure 61



WARNING

AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

W-2220-0396

To Connect:

Remove any dirt or debris from the surface of both the male and female couplers, and from the outside diameter of the male coupler. Visually check the couplers for corroding, cracking, damage, or excessive wear. If any of these conditions exist, the coupler(s) must be replaced [Figure 61].

Install the male coupler into the female coupler. Full connection is made when the ball release sleeve slides forward on the female coupler.

NOTE: Check that the attachment hydraulic hoses are not twisted or contacting any moving parts of the VersaHANDLER or attachment. (See For First Time Installation on Page 52.) for proper adjustment.

To Disconnect:

Relieve hydraulic pressure. (See the VersaHANDLER's Operation & Maintenance Manual and Operator's Handbook for correct procedure.)

Push the couplers together. Retract the sleeve on the female coupler until the couplers disconnect.

OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

Control Functions

IMPORTANT

When using ground engaging attachments, boom extension must not exceed 250 mm (9.8 in). Exceeding this limit can cause boom and / or hydraulic cylinder damage.

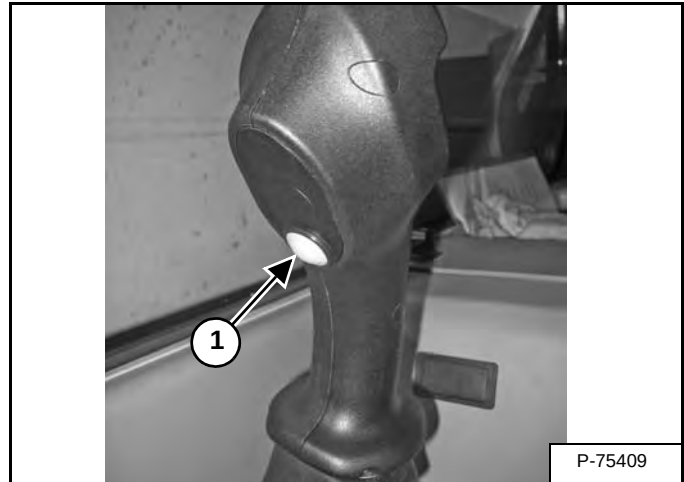
I-2266-0910

Move to the operator position, fasten seat belt and lower the restraint bar (*Canopy VersaHANDLERS Only*), start engine and release the parking brake.

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

NOTE: Auxiliary hydraulics must be activated prior to attachment operation.

Figure 62



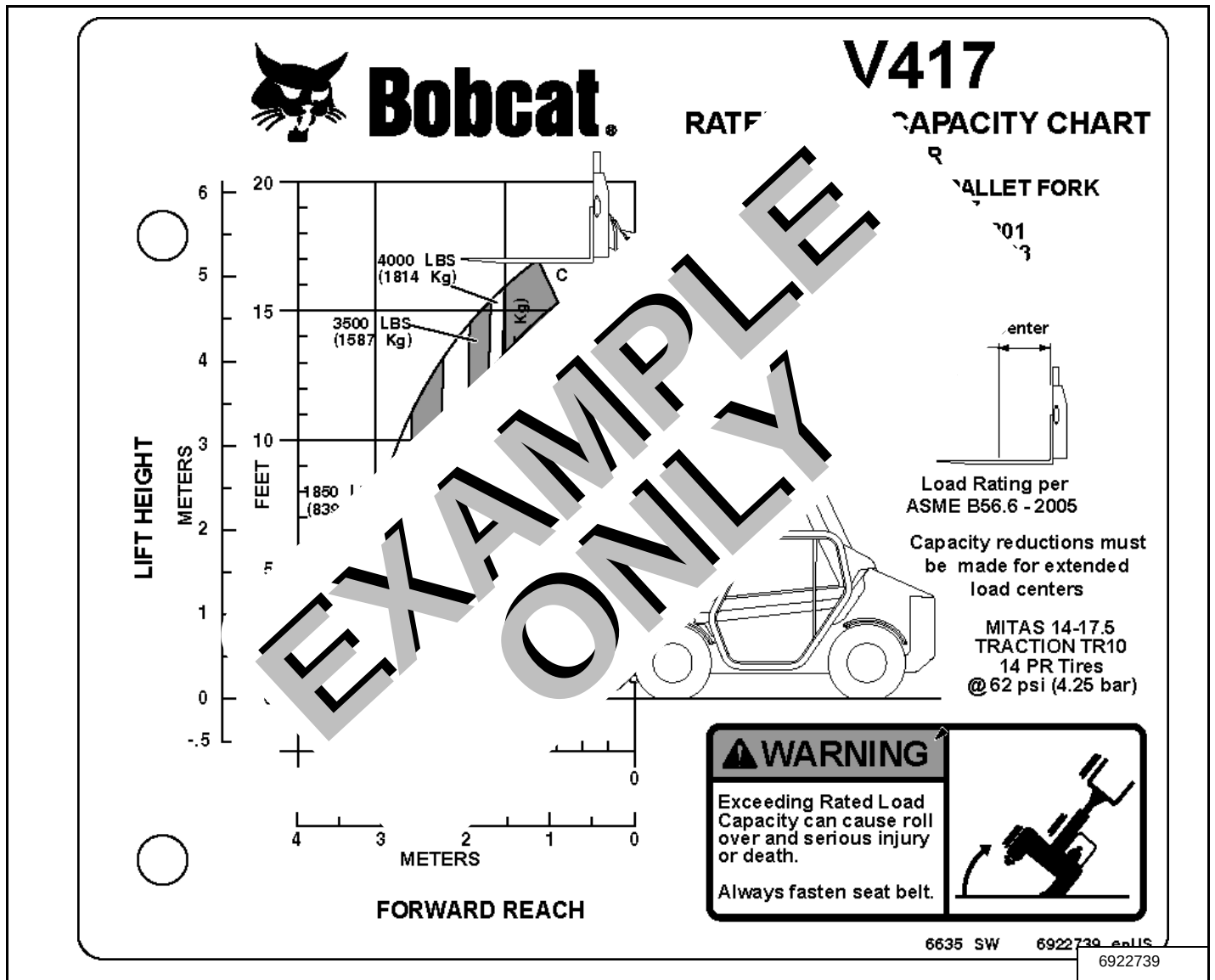
To start blade rotation, press the button (Item 1) [Figure 62]. To stop blade rotation, press the button a second time.

NOTE: If the rotary cutter is raised too high, blade rotation will stop.

Operation With The VersaHANDLER

Load Capacity Chart

Figure 63



The Load Capacity Chart [Figure 63] is an “EXAMPLE ONLY”. See the VersaHANDLER’s Operation & Maintenance Manual and Operator’s Handbook for more information on the Load Capacity Charts for your VersaHANDLER.

OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

Operation With The VersaHANDLER (Cont'd)

IMPORTANT

DO NOT operate Rotary Cutter when excessive vibration is present. Serious damage can result. Check blade, blade mounts, motors and motor carriers.

I-2377-1113

The ground condition and the type of brush being cut will determine the best cutting procedure and ground speed. The rotary cutter is designed to cut short or tall grass and brush up to 76 mm (3.00 in) in diameter.

Clear the cutting area of obstructions which might be picked up and thrown.

! WARNING

AVOID INJURY OR DEATH

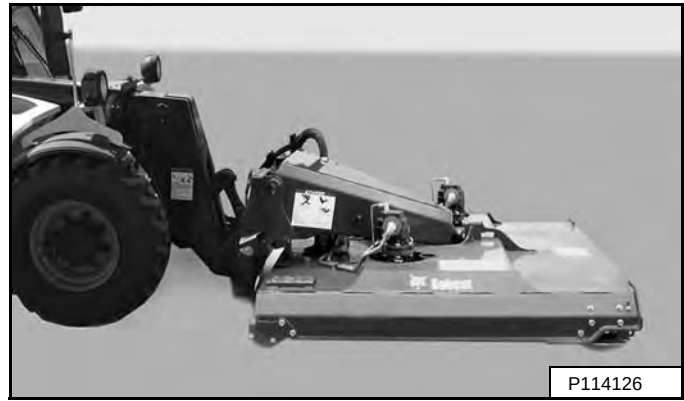
Never allow riders on the rotary cutter.

W-2295-0198

Move to the operator position, fasten seat belt, lower the restraint bar (*Canopy VersaHANDLERS Only*), start engine and release parking brake.

Carry the rotary cutter low to the ground when driving.

Figure 64



With engine at low rpm, lower the boom fully and tilt the Bob-Tach forward until the rotary cutter is flat on the ground [Figure 64].

Raise the boom slightly to allow the deck to oscillate. (When the boom is raised slightly, the Bob-Tach may need to be tilted forward slightly so the skid shoes are contacting the ground.)

NOTE: The *float* position is not recommended for this rotary cutter.

! DANGER

ROTATING BLADES WILL CAUSE SERIOUS INJURY OR DEATH

- Never put hands, feet or objects into or under rotary cutter when engine is running.
- Keep bystanders away.
- No riders.
- Stop engine before servicing.

D-1016-1209

! WARNING

AVOID INJURY OR DEATH

Never operate with missing front chain shield or guards.

W-2300-0198

OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

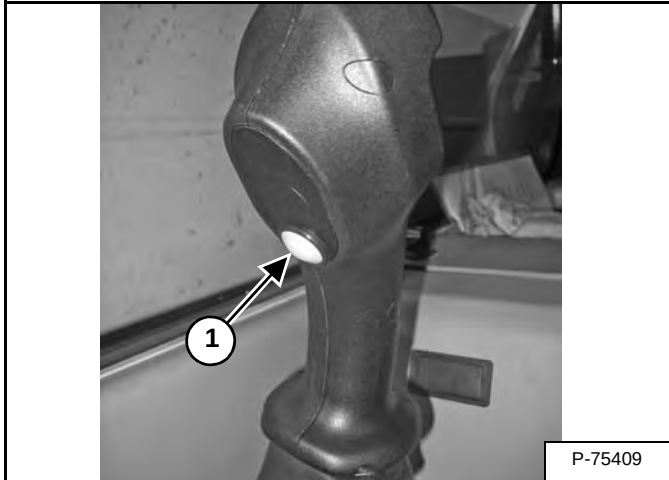
Operation With The VersaHANDLER (Cont'd)

To Start Rotary Cutter Rotation

Move to the operator position, fasten seat belt and lower the restraint bar (*Canopy VersaHANDLERS Only*), start engine and release the parking brake.

The auxiliary hydraulics must be activated prior to rotary cutter operation.

Figure 65



Press the switch (Item 1) **[Figure 65]** to start blade rotation. Drive the VersaHANDLER forward into the work area.

NOTE: If the rotary cutter is raised too high, blade rotation will stop.



DANGER

THROWN OBJECTS WILL CAUSE SERIOUS INJURY OR DEATH

- Clear mowing area of debris.
- Never operate rotary cutter in vicinity of other persons. Objects can be thrown more than several hundred feet.
- Keep all chains and shields installed. Repair or replace if damaged or missing.
- Check blades and mounting hardware. Replace if damaged. Never weld or modify.

D-1015-1209

OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

Operation With The VersaHANDLER (Cont'd)

Restarting Rotary Cutter Rotation

Figure 66

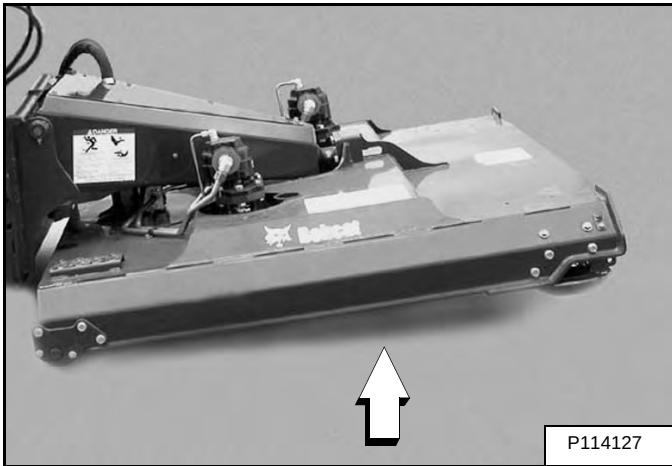
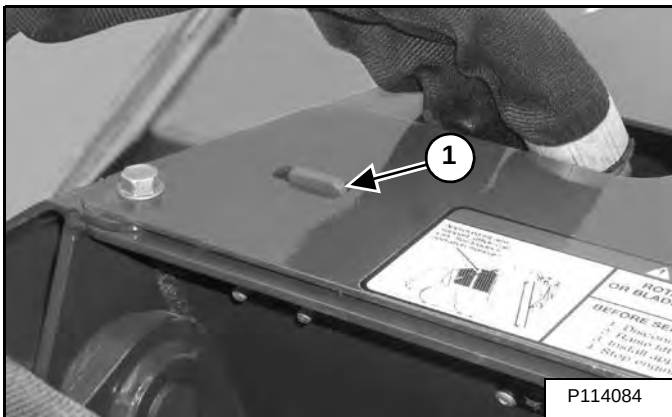


Figure 67



When the lift arms are raised too high, the blade shut-off device will **stop the blades from rotating**. If this happens, deactivate the auxiliary hydraulics and lower the rotary cutter flat on the ground. **Reactivate the auxiliary hydraulics** to restart blade rotation.

NOTE: When the rotary cutter is positioned on the ground in the operating position, the blade shut-off device indicator (Item 1) [Figure 67] will not be visible above the cover. The indicator will be visible when the lift arms are raised too high and the rotary cutter rear roller is not contacting the ground.

NOTE: The shut-off valve **WILL NOT** reset until the auxiliary hydraulics are disengaged.

Tips / Recommendations

Figure 68



Tilting the Bob-Tach backward slightly to raise the front of the rotary cutter may help while driving forward into thick brush and when turning [Figure 68]. Tilt rotary cutter down to start cutting.

For cutting applications that require slow travel speed while maintaining high engine rpm, activate the creep function on the VersaHANDLER. (See the VersaHANDLER's Operation & Maintenance Manual for the correct procedure.)

OPERATING PROCEDURE WITH VERSAHANDLERS (CONT'D)

Removal

Hand Lever Bob-Tach

Lower the boom and put the attachment flat on the ground and lower or close the hydraulic equipment (if equipped).

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 VersaHANDLER.

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

Exit the VersaHANDLER. (See Entering And Exiting The VersaHANDLER on Page 48.)

! WARNING

Before you leave the operator's position:

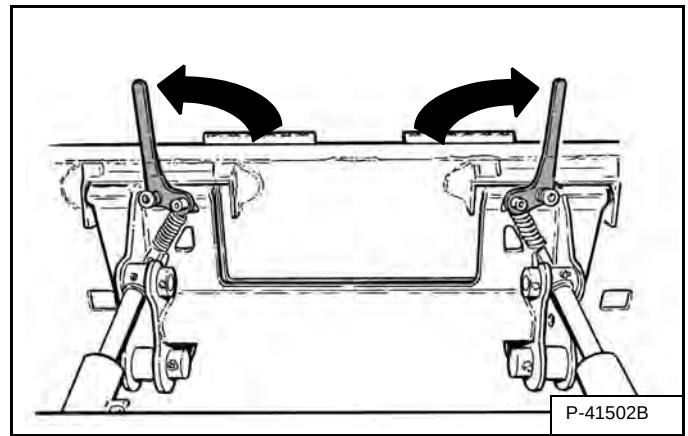
- Put the travel Direction Control Lever and the Joystick in neutral.
- Engage the parking brake.
- Retract and lower the boom and attachment flat on the ground.
- Stop the engine. Raise the restraint bar (if equipped).

SEE THE MACHINE OPERATION & MAINTENANCE MANUAL FOR MORE INFORMATION.

W-2637-0607

Disconnect auxiliary hydraulic hoses (if applicable). (See Hydraulic Quick Couplers on Page 53.)

Figure 69



Pull the Bob-Tach levers up until they are fully raised (wedges fully raised) [Figure 69].

! WARNING

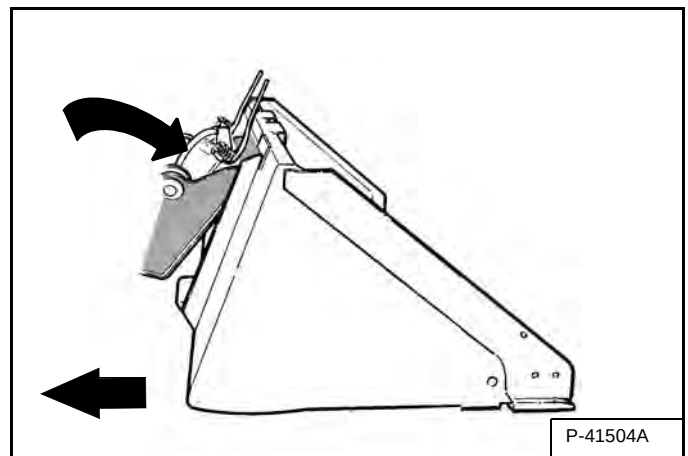
Bob-Tach levers have spring tension. Hold lever tightly and release slowly. Failure to obey warning can cause injury.

W-2054-1285

Enter the VersaHANDLER. (See Entering And Exiting The VersaHANDLER on Page 48.)

Start the engine and release the parking brake.

Figure 70



Tilt the Bob-Tach forward and drive the VersaHANDLER backward, away from the attachment [Figure 70].

OPERATING PROCEDURE WITH UTILITY WORK MACHINES

Approved Work Machine Models And Requirements

Figure 71

WORK MACHINE MODEL	ROTARY CUTTER			
	66	66HF	72	72HF
5600 A00211001 & Above A00311001 & Above A94Y11001 & Above A0W111001 & Above AHG811001 & Above	X*	X**	X*	X**
5610 (All)	X*	X**	X*	X**

X = Approved

* = Must be used in standard flow hydraulic mode.

** = Must be used in high flow hydraulic mode.

The chart [Figure 71] shows the approved rotary cutter models for each work machine model.

NOTE: For the 66HF and 72HF models: Performance will be reduced when operated in standard flow due to decreased hydraulic flow to the rotary cutter hydraulic motors.

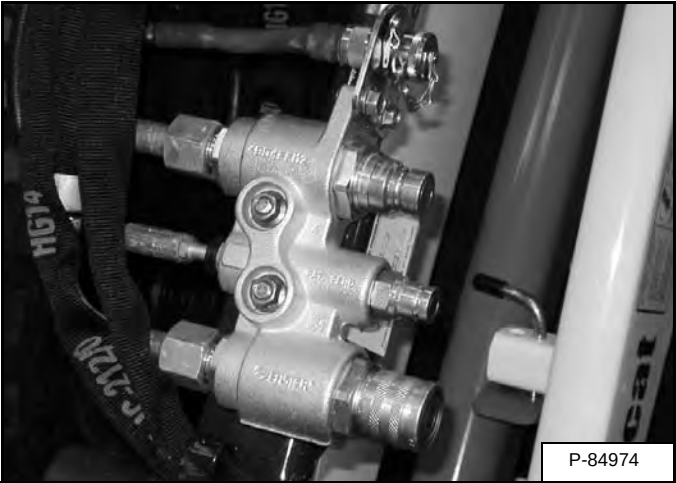
The warranty is void if this attachment is used on a non-approved carrier. See your Bobcat dealer for an updated list of approved carriers.

**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 72



The work machine must be equipped with front auxiliary hydraulics [Figure 72].

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Entering And Exiting The Work Machine

Entering



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

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.

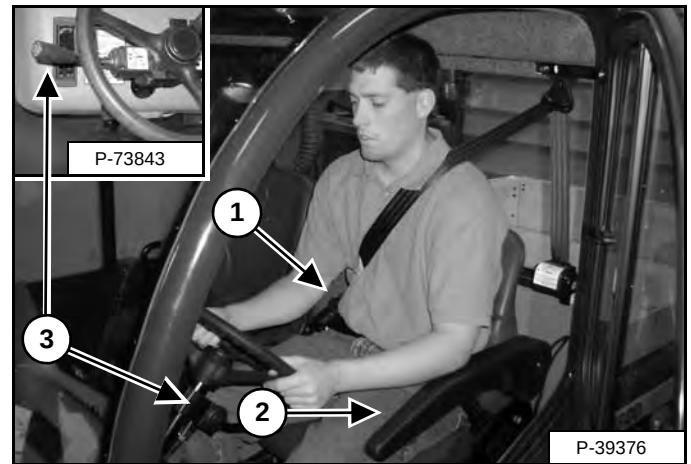
Figure 73



Enter the cab [Figure 73].

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

Figure 74



Fasten the seat belt (Item 1) and lower the operator arm rest (Item 2) [Figure 74].

Put the Travel Direction Control Lever (Item 3) [Figure 74] 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 74] in "PARK".

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

Stop the engine.

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

Exit the work machine.



AVOID INJURY OR DEATH

Before you leave the operator's seat:

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

W-2443-1102

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Installation

Hand Lever Bob-Tach

NOTE: The illustrations and instructions provided explain how to install a bucket attachment on to a work machine. 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.

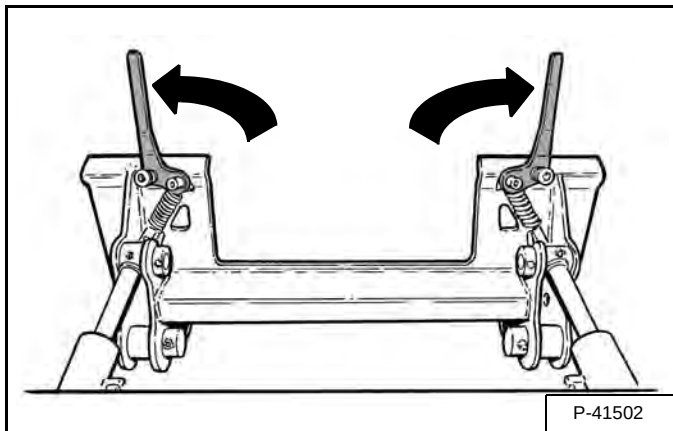
! WARNING

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

Figure 75

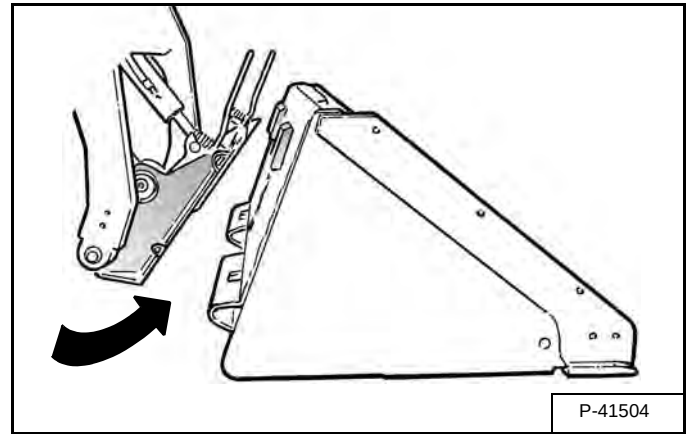


Pull the Bob-Tach levers up until they are fully raised (wedged fully raised) [Figure 75].

Enter the work machine. (See Entering And Exiting The Work Machine on Page 61.)

Start the engine.

Figure 76

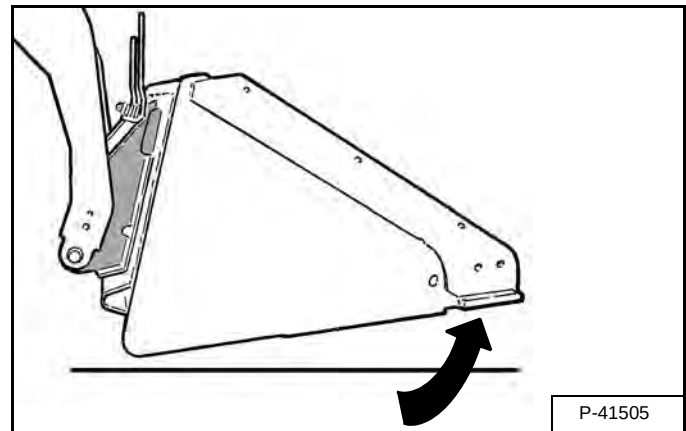


Lower the lift arm and tilt the Bob-Tach forward.

Drive the work machine slowly forward until the top edge of the Bob-Tach is completely under the top flange of the attachment mounting frame [Figure 76].

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

Figure 77



Tilt the Bob-Tach backward until the attachment is slightly off the ground [Figure 77]. 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 work machine. (See Entering And Exiting The Work Machine on Page 61.)

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Installation (Cont'd)

Hand Lever Bob-Tach (Cont'd)

WARNING

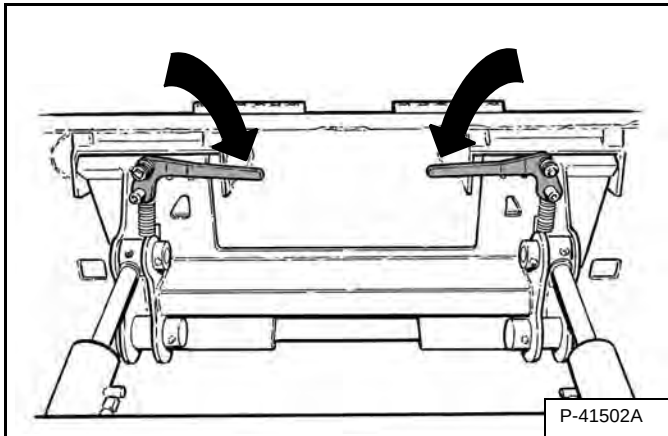
AVOID INJURY OR DEATH

Before you leave the operator's seat:

- Fully lower the lift arm, put the attachment flat on the ground.
- Fully lower the implement to the ground (if equipped).
- Put the Travel Direction Control Lever in PARK.
- Place all controls in neutral.
- Stop the engine, unfasten the seat belt, raise the arm rest, remove the key, and exit the cab.

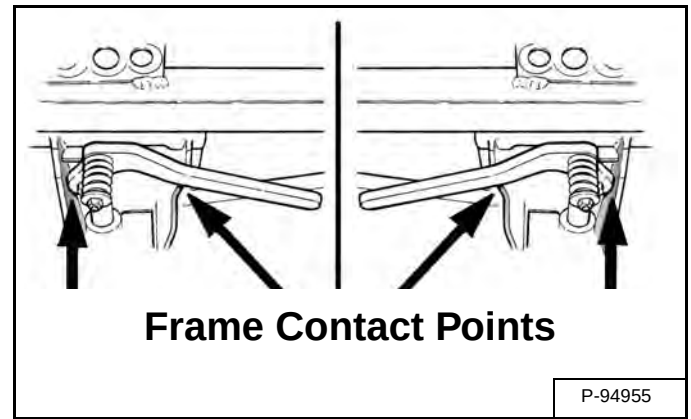
W-2729-0608

Figure 78



Push down on the Bob-Tach levers until they are fully engaged in the locked position [Figure 78] (wedges fully extended through the attachment mounting frame holes).

Figure 79



Both levers must contact the frame as shown when locked [Figure 79].

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

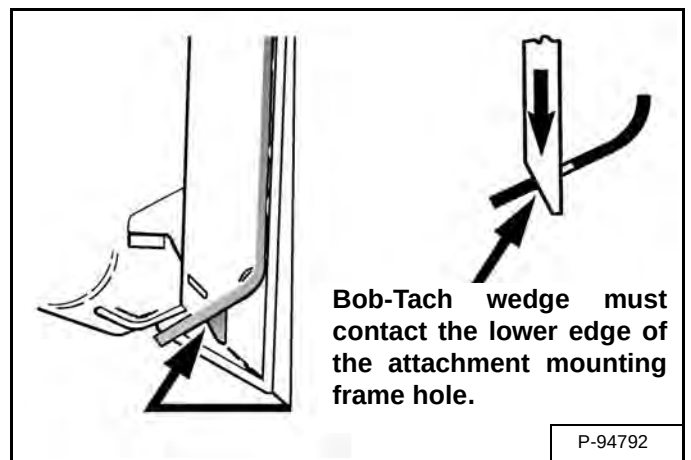
WARNING

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.

W-2715-0208

Figure 80



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 80].

Connect auxiliary hydraulic hoses (if applicable). (See Hydraulic Quick Couplers on Page 68.)

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Installation (Cont'd)

Power Bob-Tach

! 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

This work machine may be equipped with a Power Bob-Tach.

Enter the work machine. (See Entering And Exiting The Work Machine on Page 61.)

Start the engine.

Figure 81

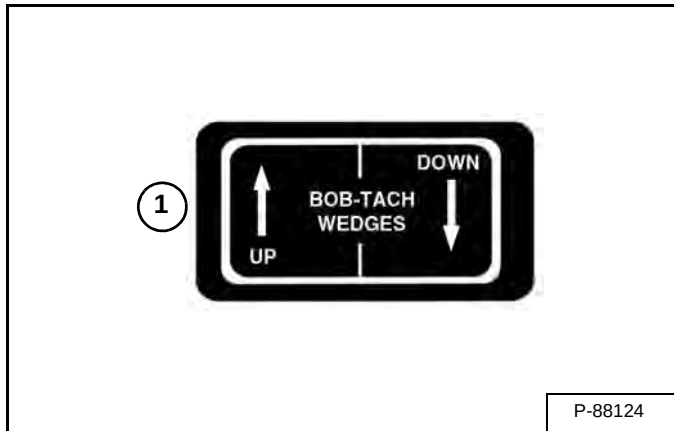
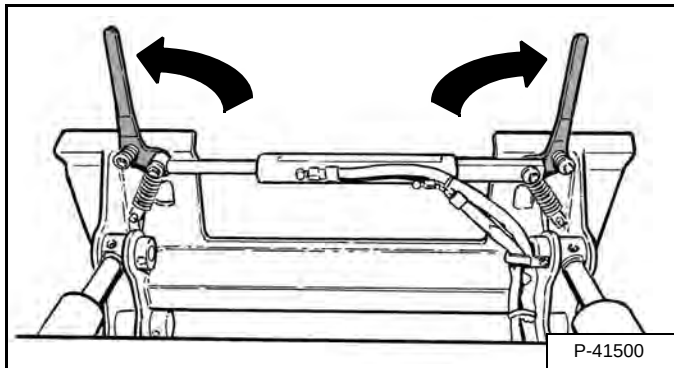
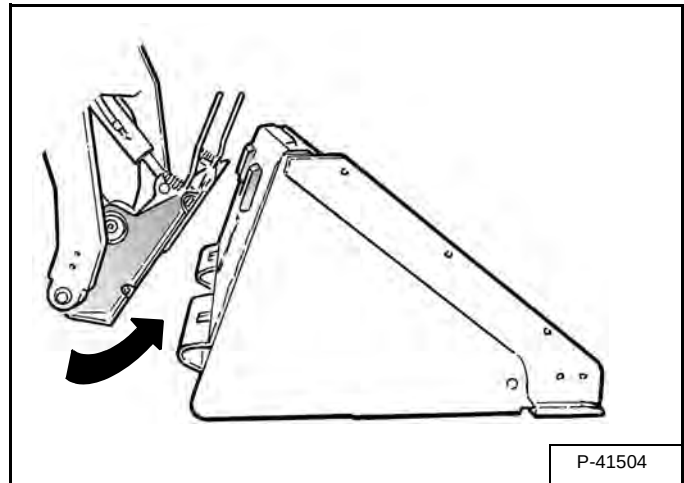


Figure 82



Push and hold the BOB-TACH “WEDGES UP” switch (Item 1) [Figure 81] until the levers are fully raised (wedges fully raised) [Figure 82].

Figure 83

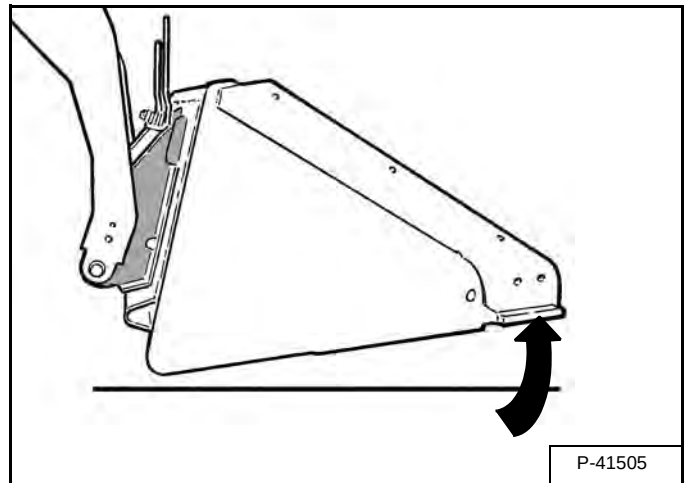


Lower the lift arm and tilt the Bob-Tach slightly forward.

Drive the work machine slowly forward until the top edge of the Bob-Tach is completely under the top flange of the attachment mounting frame [Figure 83].

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

Figure 84



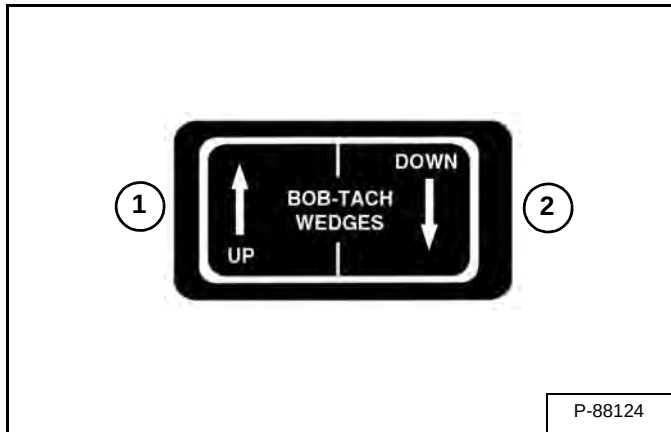
Tilt the Bob-Tach backward until the attachment is slightly off the ground [Figure 84]. This will cause the attachment mounting frame to fit up against the front of the Bob-Tach.

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Installation (Cont'd)

Power Bob-Tach (Cont'd)

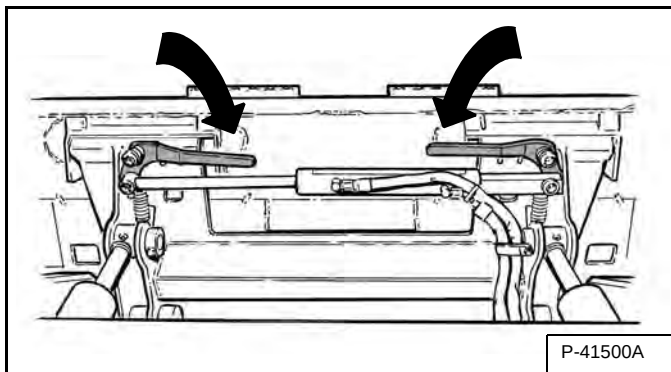
Figure 85



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") to be sure both wedges are fully raised before installing the attachment.

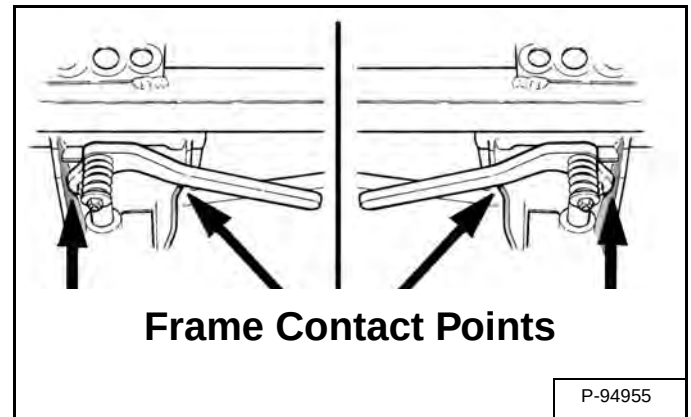
Push and hold the BOB-TACH "WEDGES UP" switch (Item 1) [Figure 85] until the levers are fully raised (wedges fully raised).

Figure 86



Push and hold the BOB-TACH "WEDGES DOWN" switch (Item 2) [Figure 85] until the levers are fully engaged in the locked position [Figure 86] (wedges fully extended through the attachment mounting frame holes).

Figure 87



Both levers must contact the frame as shown when locked [Figure 87].

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

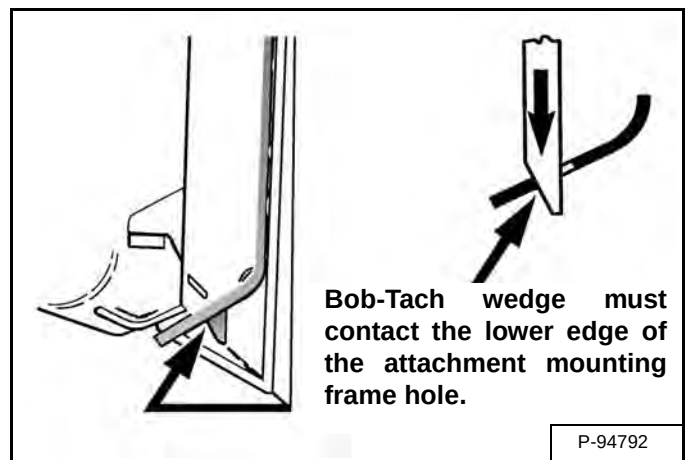
WARNING

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.

W-2715-0208

Figure 88



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 88].

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

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Installation (Cont'd)

Power Bob-Tach (Cont'd)

Stop the engine and exit the work machine. (See Entering And Exiting The Work Machine on Page 61.)



WARNING

AVOID INJURY OR DEATH

Before you leave the operator's seat:

- Fully lower the lift arm, put the attachment flat on the ground.
- Fully lower the implement to the ground (if equipped).
- Put the Travel Direction Control Lever in PARK.
- Place all controls in neutral.
- Stop the engine, unfasten the seat belt, raise the arm rest, remove the key, and exit the cab.

W-2729-0608

Connect auxiliary hydraulic hoses (if applicable). (See Hydraulic Quick Couplers on Page 68.)

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Installation (Cont'd)

For First Time Installation

New attachments and new work 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 work 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 work machine engine off and using the hose guides (if equipped), route the attachment hydraulic hoses to the work machine. Connect the attachment hydraulic quick couplers to the work machine couplers. (See Hydraulic Quick Couplers on Page 68.)

Check that the attachment hydraulic hoses are not twisted or contacting any moving parts of the work 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 work machine. Do not remove the quick couplers.

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

With the twist(s) removed from the hydraulic hoses, tighten the attachment quick coupler connections while they are still connected to the work 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 work machine.

Enter the work machine. (See Entering And Exiting The Work Machine on Page 61.)

Start the engine and release the parking brake (if equipped).

Engage auxiliary hydraulics. (See the work 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.

Hydraulic Quick Couplers

Front Auxiliary Hydraulics

IMPORTANT

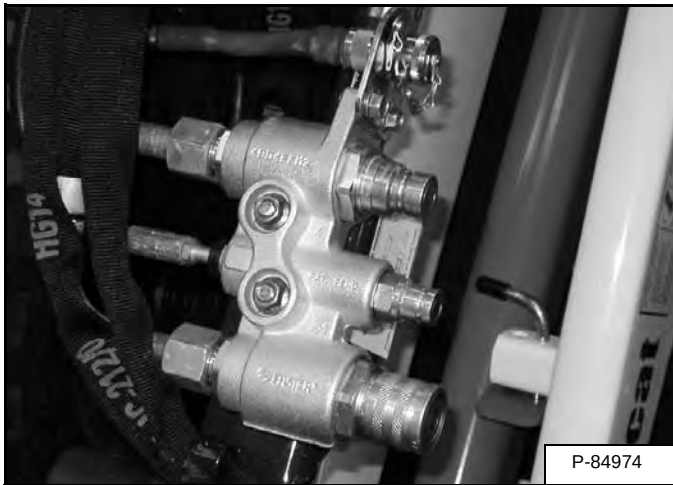
- Thoroughly clean the quick couplers before making connections. Dirt can quickly damage the system.
- Contain and dispose of any oil leakage in an environmentally safe manner.

I-2278-0608

New attachments and new work 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 work machine. See your Bobcat dealer for parts information.

NOTE: Make sure the quick couplers are fully engaged. If the quick couplers do not fully engage, check to see that the couplers are the same size and type.

Figure 89



P-84974

! WARNING

AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

W-2220-0396

To Connect:

Remove any dirt or debris from the surface of both the male and female couplers, and from the outside diameter of the male coupler. Visually check the couplers for corroding, cracking, damage, or excessive wear. If any of these conditions exist, the coupler(s) must be replaced [Figure 89].

Install the male coupler into the female coupler. Full connection is made when the ball release sleeve slides forward on the female coupler.

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

To Disconnect:

Relieve hydraulic pressure. (See the work machine's Operation & Maintenance Manual and Operator's Handbook for correct procedure.)

Push the couplers together, retract the sleeve on the female coupler until the couplers disconnect.

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Hydraulic Flow Information

NOTE: The shut-off valve WILL NOT reset until the auxiliary hydraulics are disengaged.

For 66 in rotary cutter:

These rotary cutters are equipped with a flow control regulator valve. DO NOT use these rotary cutters with the work machine in high flow hydraulic mode. If hydraulic flow exceeds approximately 91 L/min (24 U.S. gpm), the flow control regulator valve will shut off the rotary cutter motor. If this happens, stop the hydraulic flow to the rotary cutter for a few seconds, this will reset the flow control regulator valve. Restart hydraulic flow and the rotary cutter blade rotation will restart.

For 66HF in rotary cutter:

These rotary cutters can be used with the hydraulics in either standard flow or high flow mode. The rotary cutter blade RPM will be higher in high flow mode. If hydraulic flow exceeds approximately 136 L/min (36 U.S. gpm), the flow control regulator valve will shut off the rotary cutter motor. If this happens, stop the hydraulic flow to the rotary cutter for a few seconds, this will reset the flow control regulator valve. Restart hydraulic flow and the rotary cutter blade rotation will restart.



WARNING

AVOID INJURY OR DEATH

Never operate without blade shut-off device.

Never modify the blade shut-off device and check that it is operating properly.

W-2298-0398

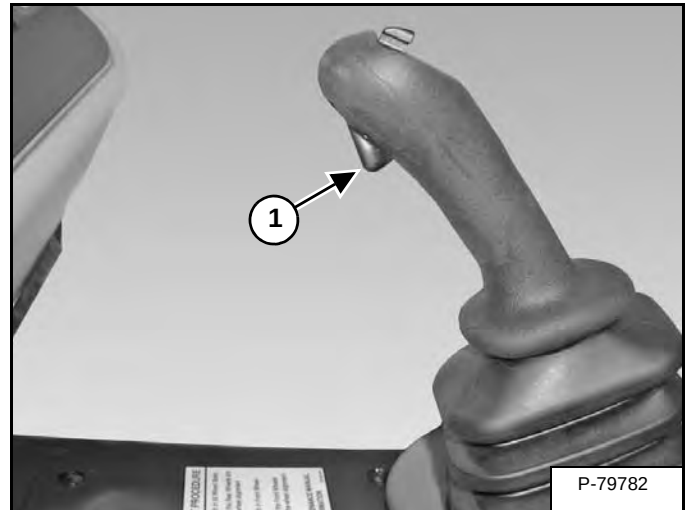
Control Functions

Enter the cab and fasten the seat belt, lower the operator arm rest, and start the engine.

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

NOTE: Auxiliary hydraulics must be activated prior to attachment operation.

Figure 90



Press the front switch (Item 1) on the joystick to start blade rotation. Press the switch (Item 1) [Figure 90] a second time to stop blade rotation.

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Operation With The Work Machine

IMPORTANT

DO NOT operate Rotary Cutter when excessive vibration is present. Serious damage can result. Check blade, blade mounts, motors and motor carriers.

I-2377-1113

The ground condition and the type of brush being cut will determine the best cutting procedure and ground speed. The rotary cutter is designed to cut short or tall grass and brush up to 76 mm (3.00 in) in diameter.

Clear the cutting area of obstructions which might be picked up and thrown.

! WARNING

AVOID INJURY OR DEATH

Never operate with missing front chain shield or guards.

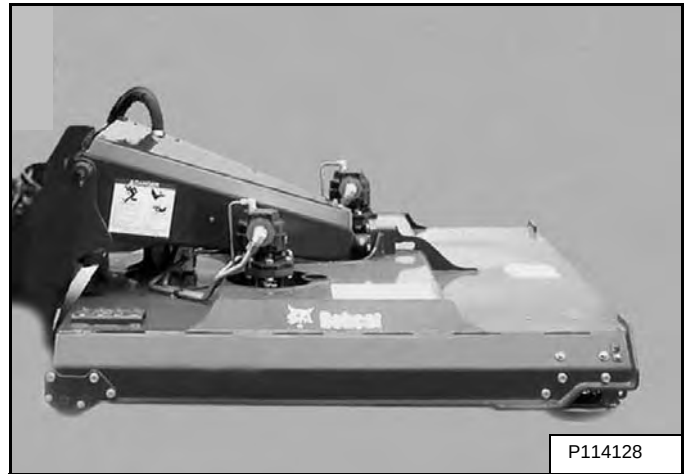
W-2300-0198

Enter the work machine, fasten the seat belt, lower the arm rest and start the engine.

Release the parking brake.

Carry the rotary cutter low to the ground when driving.

Figure 91



With engine at low rpm, lower the boom fully and tilt the Bob-Tach forward until the rotary cutter is flat on the ground [Figure 91].

Raise the lift arm slightly to allow the deck to oscillate. (When the lift arm is raised slightly, the Bob-Tach may need to be tilted forward slightly so the skid shoes are contacting the ground.)

NOTE: The *float* position is not recommended for this rotary cutter.

! DANGER

ROTATING BLADES WILL CAUSE SERIOUS INJURY OR DEATH

- Never put hands, feet or objects into or under rotary cutter when engine is running.
- Keep bystanders away.
- No riders.
- Stop engine before servicing.

D-1016-1209

! WARNING

AVOID INJURY OR DEATH

Never allow riders on the rotary cutter.

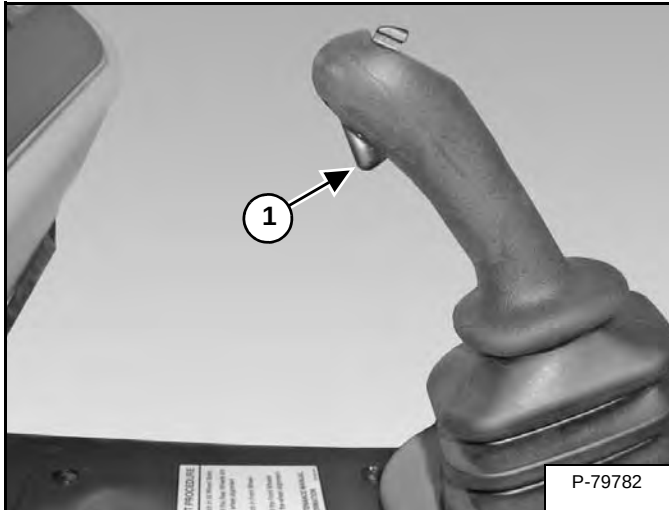
W-2295-0198

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Operation With The Work Machine (Cont'd)

To Start Rotary Cutter Rotation

Figure 92



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

Press the switch (Item 1) [Figure 92] on the joystick to start blade rotation. Increase engine speed to full rpm, and drive the utility vehicle forward into the work area.

NOTE: If the rotary cutter is raised too high, blade rotation will stop.



DANGER

THROWN OBJECTS WILL CAUSE SERIOUS INJURY OR DEATH

- Clear mowing area of debris.
- Never operate rotary cutter in vicinity of other persons. Objects can be thrown more than several hundred feet.
- Keep all chains and shields installed. Repair or replace if damaged or missing.
- Check blades and mounting hardware. Replace if damaged. Never weld or modify.

D-1015-1209

Restarting Rotary Cutter Rotation

Figure 93

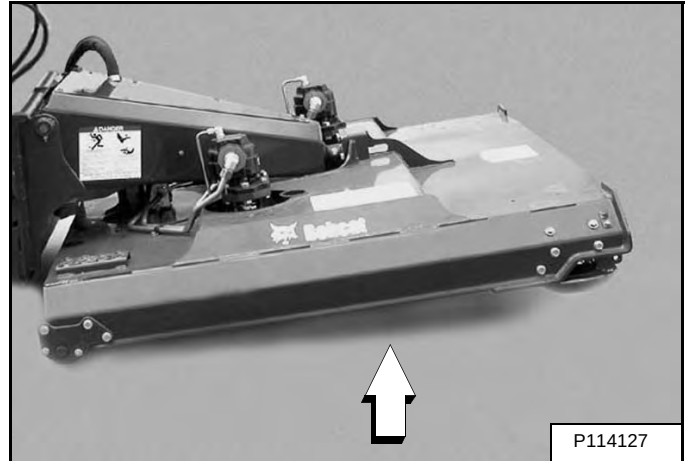
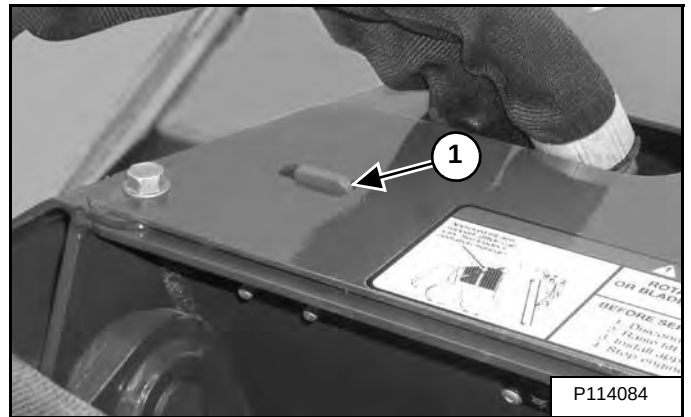


Figure 94



When the lift arm is raised too high, the blade shut-off device will **stop the blades from rotating**. If this happens, deactivate the auxiliary hydraulics and lower the rotary cutter flat on the ground. **Reactivate the auxiliary hydraulics** to restart blade rotation.

NOTE: When the rotary cutter is positioned on the ground in the operating position, the blade shut-off device indicator (Item 1) [Figure 94] will not be visible above the cover. The indicator will be visible when the lift arms are raised too high and the rotary cutter rear roller is not contacting the ground.

NOTE: The shut-off valve WILL NOT reset until the auxiliary hydraulics are disengaged.

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Operation With The Work Machine (Cont'd)

Tips / Recommendations

Figure 95



Tilting the Bob-Tach backward slightly to raise the front of the rotary cutter may help while driving forward into thick brush and when turning **[Figure 95]**. Tilt rotary cutter down to start cutting.

OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

Removal

Hand Lever Bob-Tach

Lower the lift arm and put the attachment flat on the ground. Lower or close the hydraulic equipment (if equipped).

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 work 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 61.)

! WARNING

AVOID INJURY OR DEATH

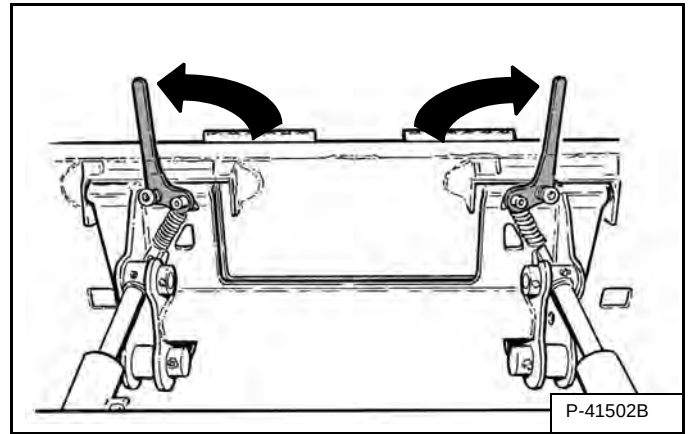
Before you leave the operator's seat:

- Fully lower the lift arm, put the attachment flat on the ground.
- Fully lower the implement to the ground (if equipped).
- Put the Travel Direction Control Lever in PARK.
- Place all controls in neutral.
- Stop the engine, unfasten the seat belt, raise the arm rest, remove the key, and exit the cab.

W-2729-0608

Disconnect auxiliary hydraulic hoses (if applicable). (See Hydraulic Quick Couplers on Page 68.)

Figure 96



Pull the Bob-Tach levers up until they are fully raised (wedges fully raised) [Figure 96].

! WARNING

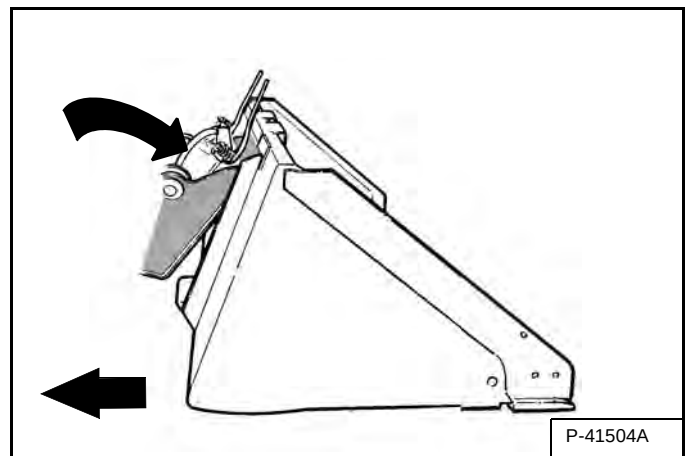
Bob-Tach levers have spring tension. Hold lever tightly and release slowly. Failure to obey warning can cause injury.

W-2054-1285

Enter the work machine. (See Entering And Exiting The Work Machine on Page 61.)

Start the engine.

Figure 97



Tilt the Bob-Tach forward and drive the work machine backward, away from the attachment [Figure 97].

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 work 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 61.)



WARNING

AVOID INJURY OR DEATH

Before you leave the operator's seat:

- Fully lower the lift arm, put the attachment flat on the ground.
- Fully lower the implement to the ground (if equipped).
- Put the Travel Direction Control Lever in PARK.
- Place all controls in neutral.
- Stop the engine, unfasten the seat belt, raise the arm rest, remove the key, and exit the cab.

W-2729-0608

Disconnect auxiliary hydraulic hoses (if applicable). (See Hydraulic Quick Couplers on Page 68.)

Enter the work machine. (See Entering And Exiting The Work Machine on Page 61.)

Start the engine.

Figure 98

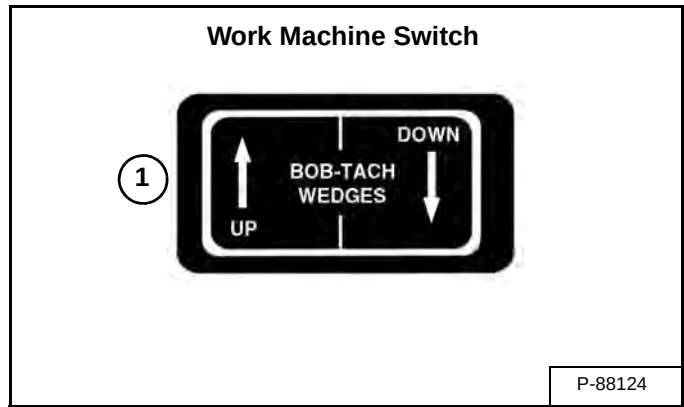
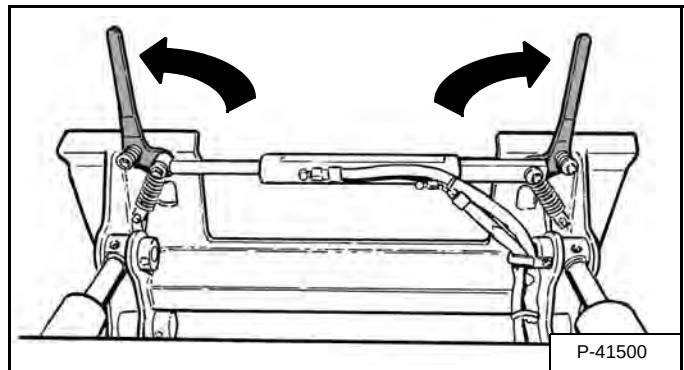
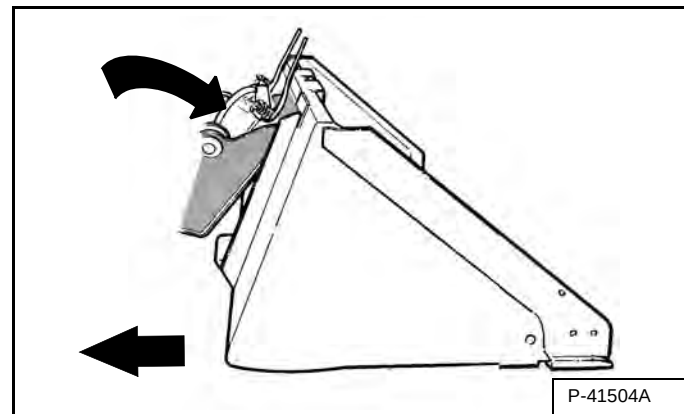


Figure 99



Push and hold the BOB-TACH "WEDGES UP" switch (Item 1) [Figure 98] until the levers are fully raised (wedges fully raised) [Figure 99].

Figure 100



Tilt the Bob-Tach forward and drive the work machine backward, away from the attachment [Figure 100].

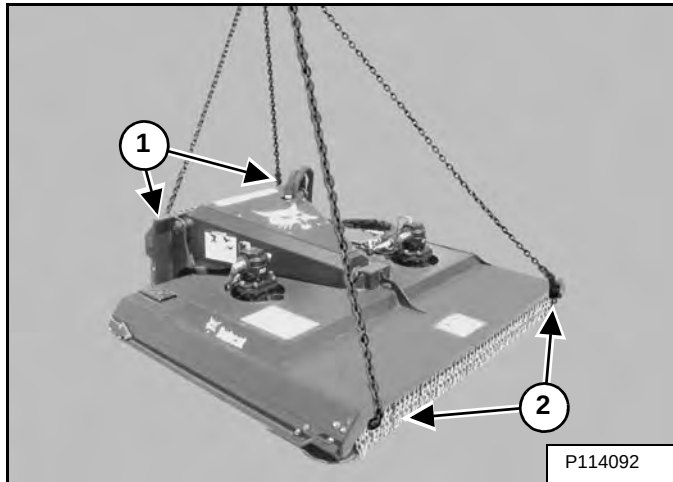
NOTE: The Power Bob-Tach system has continuous pressurized hydraulic oil to keep the wedges in the engaged position and prevent attachment disengagement. Because the wedges can slowly lower, the operator may need to reactivate the switch (BOB-TACH "WEDGES UP") when removing an attachment to be sure both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

LIFTING THE ATTACHMENT

Procedure

NOTE: Use chains that are in good condition and of adequate size to lift the attachment.

Figure 101



Install chain hooks to the mounting frame (Item 1) **[Figure 101]**.

Connect chain hooks to the loop in front of the pivot block, not to the skid shoes (Item 2) **[Figure 101]**.

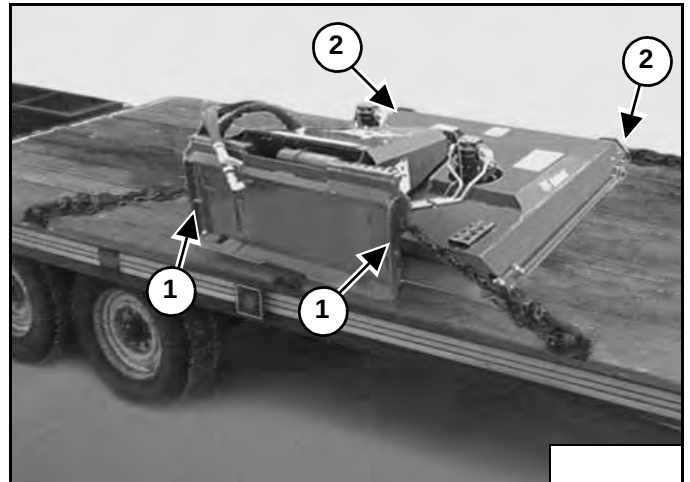
Position the lifting chains in a location which will balance the rotary cutter while lifting.

TRANSPORTING THE ATTACHMENT ON A TRAILER

Fastening

NOTE: Use chains that are in good condition and of adequate size to secure the attachment.

Figure 102



Connect the chains to the mounting frame (Item 1) and to the front attachment point (Item 2) **[Figure 102]**.

Connect the opposite end of the chains to the transport vehicle and use chain binders to prevent the rotary cutter from moving during transportation.

TRANSPORTING THE ATTACHMENT AND MACHINE ON A TRAILER

Loading And Fastening



WARNING

AVOID SERIOUS INJURY OR DEATH

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.

W-2058-0807

Be sure the transport and towing vehicles are of adequate size and capacity for weight of machine and attachment combination. (See the machine's and attachment's Operation & Maintenance Manuals for specifications.)

Loading

The rear of the trailer must be blocked or supported when loading and unloading to prevent the front of the trailer from raising.

- Load the heaviest end of the machine and attachment combination first.
- Lower the attachment to the floor.
- Stop the engine.
- Engage the parking brake (if equipped).
- Exit the machine. (See the machine's Operation & Maintenance Manual for the correct procedure.)

Fastening

- Install chains at the front and rear tie down positions on the machine. (See the machine's Operation & Maintenance Manual to properly chain the machine to the transport vehicle.)
- Install chains on the attachment (if needed).
- Fasten each end of the chain to the transport vehicle.

NOTE: Use chain binders to prevent the attachment and machine from moving during transport.

PREVENTIVE MAINTENANCE

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MAINTENANCE SAFETY



WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0807



Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.

CORRECT



P-90216

-  Never service attachments / implements without instructions. See Operation & Maintenance Manual and Attachment / Implement Service Manual.
-  Cleaning and maintenance are required daily.
-  Never service or adjust attachment / implement with the engine running unless instructed to do so in manual.
-  Always lower the attachment / implement to the ground before lubricating or servicing.
-  Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate skin or eyes.
-  Stop, cool and clean engine of flammable materials before checking fluids.
-  Keep body, loose objects and clothing away from moving parts, electrical contacts, hot parts and exhaust.
-  Safety glasses are needed for eye protection from electrical arcs, battery acid, compressed springs, fluids under pressure and flying debris or when tools are used. Use eye protection approved for type of welding.



Bobcat®

TROUBLESHOOTING

Chart



WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0807

If the attachment is not working correctly, check the hydraulic system of the machine thoroughly before making any repairs on the attachment. Attachment problems can be affected by a hydraulic system that is not operating to specifications. Connect a flow meter to the machine to check the hydraulic pump output, relief valve setting and tube lines to check flow and pressure. (See the machine's Service Manual for the correct procedure to connect the flow meter.)

Use the following troubleshooting chart to locate and correct problems which most often occur with the rotary cutter.

PROBLEM	CAUSE	CORRECTION
Poor Cutting.	Travel speed too fast.	Reduce travel speed.
	Debris on blade mounting plate.	Clean mounting plate.
	Damaged cutter motor(s).	Repair or replace motor(s).
	Low blade rpm.	Check auxiliary hydraulic flow or operating high flow rotary cutter in standard flow.
Blades will not rotate.	Lift arms too high.	Lower lift arms and reactivate the auxiliary hydraulics.
	Machine fluid level too low.	Add hydraulic fluid to the reservoir on the machine.
	Damaged quick coupler(s).	Replace quick coupler(s).
	Damaged hydraulic hoses.	Repair or replace hoses.
	Blade shut-off linkage broken or missing.	Repair or replace as needed. See dealer for service.
	Internal damage to valve.	See dealer for service.
	Machine main relief valve set too low.	Adjust main relief valve to correct setting.
Blade rotation stops	Hydraulic flow exceeded: for 66 in: 91 L/min (24 U.S. gpm) for 72 in: 98 L/min (26 U.S. gpm).	The hydraulic flow regulator valve activated and stopped hydraulic flow to the rotary cutter motor. Disengage auxiliary hydraulics to reset flow regulator valve. Engage auxiliary hydraulics to restart blade rotation. Reduce engine rpm slightly to reduce hydraulic flow if this situation reoccurs.
Blades will not stop when shut-off lever is engaged.	Linkage broken.	Replace linkage.
	Internal damage to valve.	See dealer for service.
Excessive vibration.	Blades not swinging freely.	Check blades for obstructions.
	Build-up of material on the blade mounting plate.	Clean mounting plate.
	Loose or cracked hardware.	Repair or replace as needed.
	Blades worn or bent.	Replace all blades.

SERVICE SCHEDULE

Description



WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0807

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The service schedule is a guide for correct maintenance of the Bobcat product.

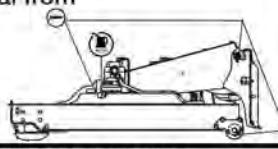
SERVICE SCHEDULE		FREQUENCY	
ITEM	SERVICE REQUIRED	10 HOURS	YEARLY
Gearbox	Check lubrication level in gearbox (SAE 90 gear lube).		
	Drain and replace lube (Approximately 0,27 L (9 oz) (SAE 90 gear lube).		
	Check for damaged or leaking gearbox.		
Grease Fittings	Lubricate all (5) grease points.		
General Items	Clean debris, leaves, grass and flammable material from deck area and under covers.		
	Check chains, deck, shields and rear rollers. Repair if damaged or replace if necessary.		
	Check blade shut-off device for proper function.		
Decals	Check for damaged or missing decals. Replace if necessary.		
Hydraulic Hoses & Fittings	Check for damaged or leaking hydraulic hoses or fittings. Replace if necessary.		
Blades	Check blades and mounting plate for cracks or damage. Replace if necessary.		
	Check blade mounting hardware and cotter pin is proper fastened. Check blade mounting plate hardware.		

Chart

ROTARY CUTTER SERVICE SCHEDULE

EVERY 10 HOURS OF OPERATION:

1. Check blade shut-off device for proper function.
2. Check blades and mounting plate for cracks or damage. Replace if necessary.
3. Check blade mounting hardware and blade mounting plate hardware. Check cotter pin is properly fastened.
4. Check chains, deck, shields and rear roller. Repair if damaged or replace if necessary.
5. Check for damaged or missing decals. Replace if necessary.
6. Check for damaged or leaking hydraulic hoses or fittings. Replace if necessary.
7. Clean debris, leaves, grass and flammable material from deck area and under covers.
8. Lubricate all (5) grease points.
9. Check lubrication level in gearbox (SAE 90 gear lube).



SEE ATTACHMENT OPERATION AND MAINTENANCE MANUAL FOR MORE INSTRUCTIONS.

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LUBRICATION

Lubrication Points

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

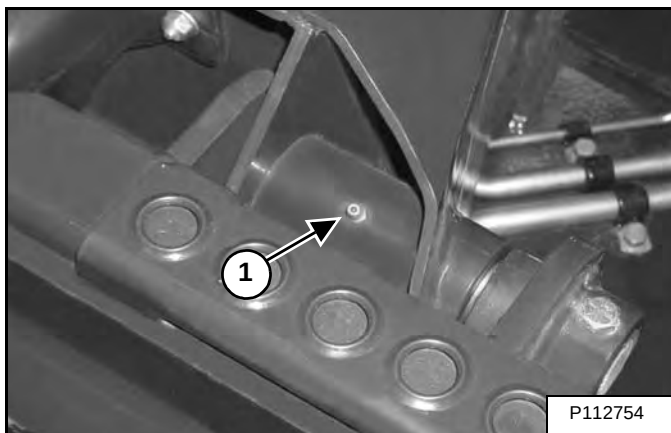
Lubricate grease fittings every 10 hours of operation.

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.

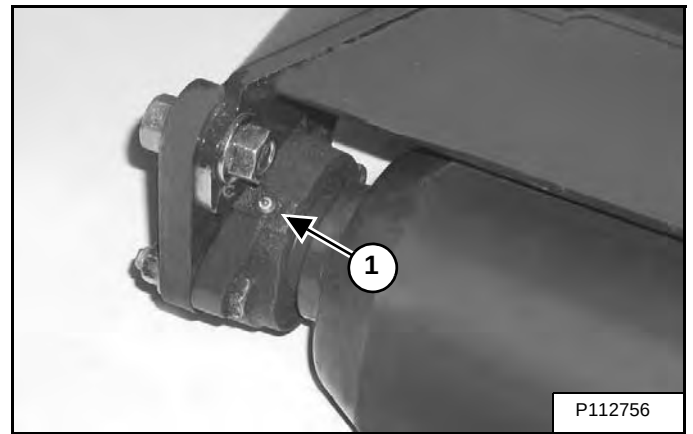
I-2067-0499

Figure 103



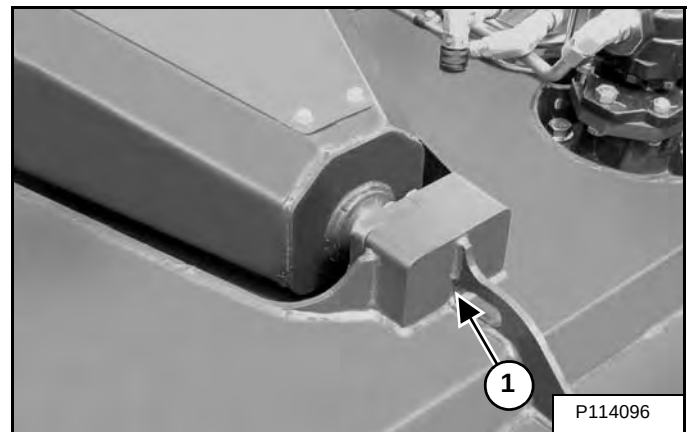
Lubricate the grease fittings (Item 1) [Figure 103] (both sides).

Figure 104



Lubricate the grease fittings (Item 1) [Figure 104] (both sides).

Figure 105



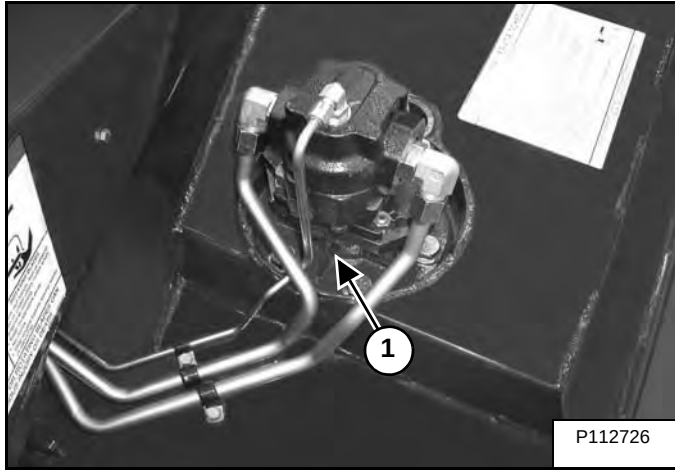
Lubricate the grease fitting (Item 1) [Figure 105].

MOTOR CARRIER LUBRICATION

Checking And Adding Oil

Check the motor carrier oil level every 10 hours of operation. (See SERVICE SCHEDULE on Page 82.)

Figure 106



There are two check / fill plugs (Item 1) **[Figure 106]** located on the side of the gear box. Remove one of the plugs, the oil level should be at the bottom edge of the plug hole. Add oil (90W gear lube) as needed. Reinstall the plug and tighten.

Removing And Replacing Oil

Replace the motor carrier oil after the first 50 hours of operation and then as scheduled. (See SERVICE SCHEDULE on Page 82.)

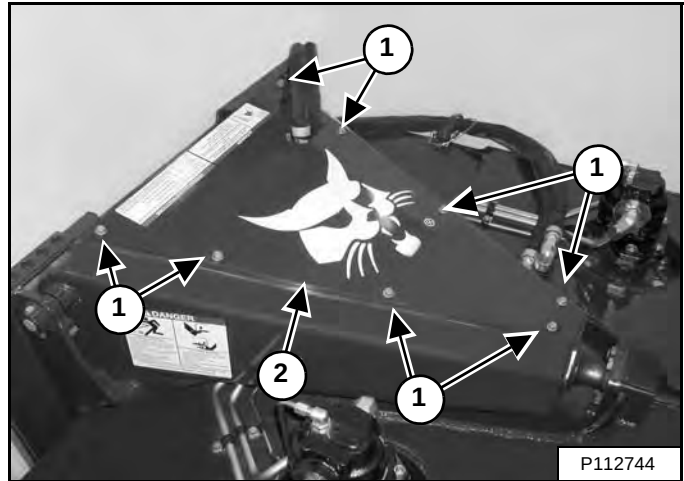
Remove one of the fill plugs (Item 1) **[Figure 106]**. Use a suction gun to remove oil from the motor carrier.

Add approximately 0,27 L (9 oz) of SAE 90 gear lube until it is at the bottom edge of the fill plug (Item 1) **[Figure 106]**. Reinstall the plug and tighten.

COVER

Removal And Installation

Figure 107



Remove the eight bolts (Item 1) and remove the cover (Item 2) **[Figure 107]**.

CLEANING THE ROTARY CUTTER

DANGER

AVOID INJURY OR DEATH

Before servicing under the raised rotary cutter:

1. Disconnect the auxiliary hydraulic hoses.
2. Raise the lift arms and tilt rotary cutter fully down.
3. Install approved lift arm support device.
4. Stop the engine.

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Disconnect the rotary cutter auxiliary hoses at the machine couplers.

Figure 108



Figure 109

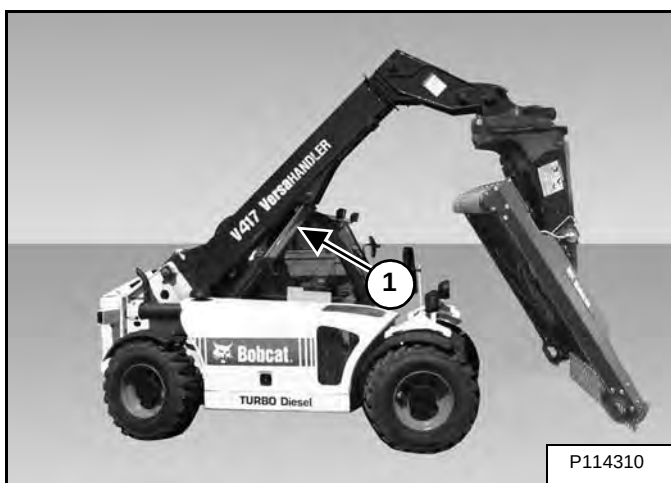
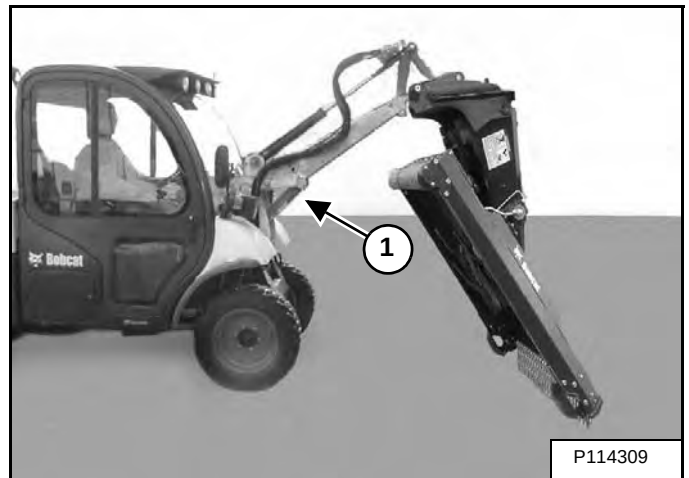


Figure 110



Position the rotary cutter as shown [Figure 108], [Figure 109] and [Figure 110] by raising the lift arms and tilting the attachment down until the front of the rotary cutter contacts the ground or is tilted fully down. Use this position for blade service or debris clean out.

Before servicing, be sure the rotary cutter is tilted fully down, AN APPROVED LIFT ARM SUPPORT DEVICE (Item 1) [Figure 108], [Figure 109] and [Figure 110] IS INSTALLED, auxiliary hydraulic hoses are disconnected, and engine is stopped.

NOTE: Approved lift arm support device style can vary. See the machine's Operation & Maintenance Manual for additional information.

Stop the engine, engage the parking brake and exit the machine.

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

Use water or air pressure to clean debris from the area under the cover.

Use care when removing any obstructions that are wrapped around blades, roller or skid shoes.

REMOVAL AND INSTALLATION OF BLADE

Procedure(s)



DANGER

AVOID INJURY OR DEATH

Before servicing under the raised rotary cutter:

1. Disconnect the auxiliary hydraulic hoses.
2. Raise the lift arms and tilt rotary cutter fully down.
3. Install approved lift arm support device.
4. Stop the engine.

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Disconnect the rotary cutter auxiliary hoses at the machine couplers.

Figure 111

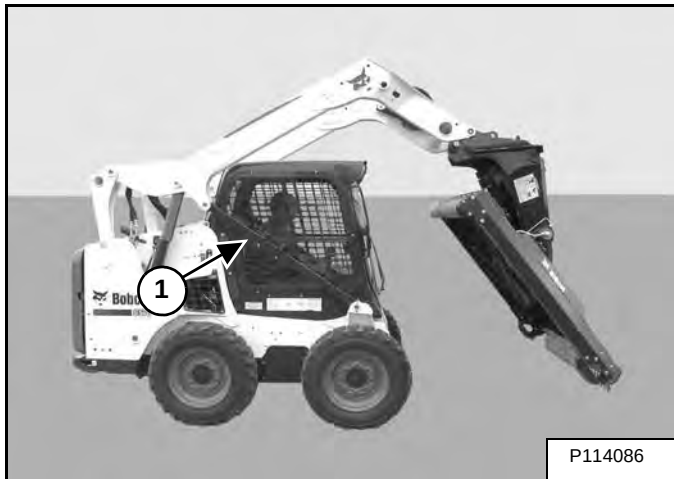


Figure 112

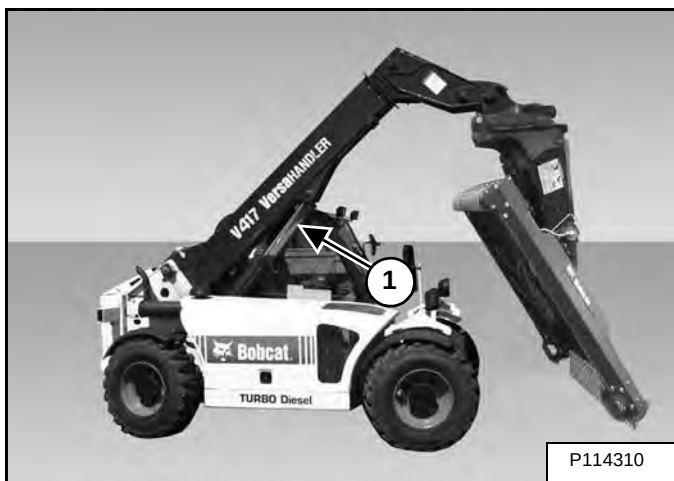
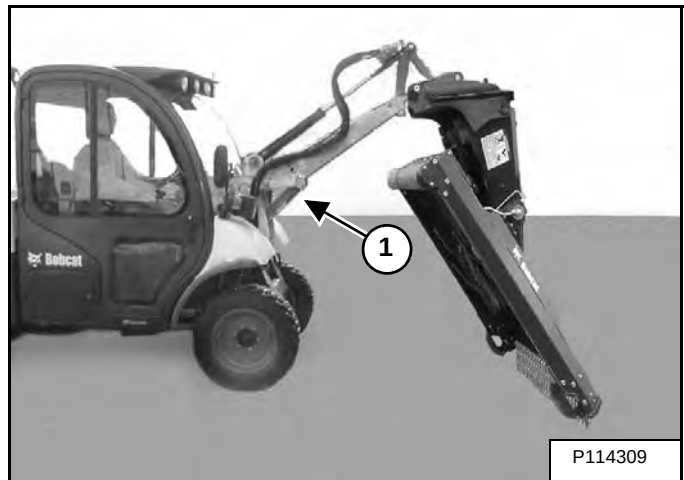


Figure 113



Position the rotary cutter as shown [Figure 111], [Figure 112] and [Figure 113] by raising the lift arms and tilting the attachment down until the front of the rotary cutter contacts the ground or is tilted fully down. Use this position for blade service or debris clean out.

Before servicing, be sure the rotary cutter is tilted fully down, AN APPROVED LIFT ARM SUPPORT DEVICE (Item 1) [Figure 111], [Figure 112] and [Figure 113] IS INSTALLED, auxiliary hydraulic hoses are disconnected, and engine is stopped.

NOTE: Approved lift arm support device style can vary. See the machine's Operation & Maintenance Manual for additional information.

Stop the engine, engage the parking brake and exit the machine.

REMOVAL AND INSTALLATION OF BLADE (CONT'D)

Procedure(s) (Cont'd)

WARNING

AVOID INJURY OR DEATH

Wear safety glasses to prevent eye injury when any of the following conditions exist:

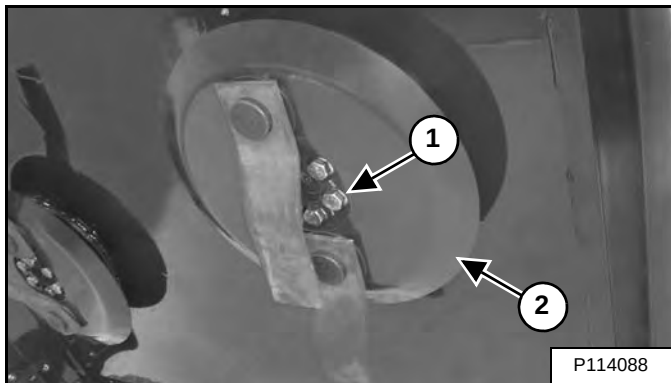
- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

W-2019-0907

NOTE: Refer to service schedule for a daily maintenance check. Check that the blades can swing freely. Check the blade and mounting plate for wear, cracking, or breakage which can cause excessive vibrations. Replace if damaged.

Service the blade only when the rotary cutter is attached to a machine.

Figure 114

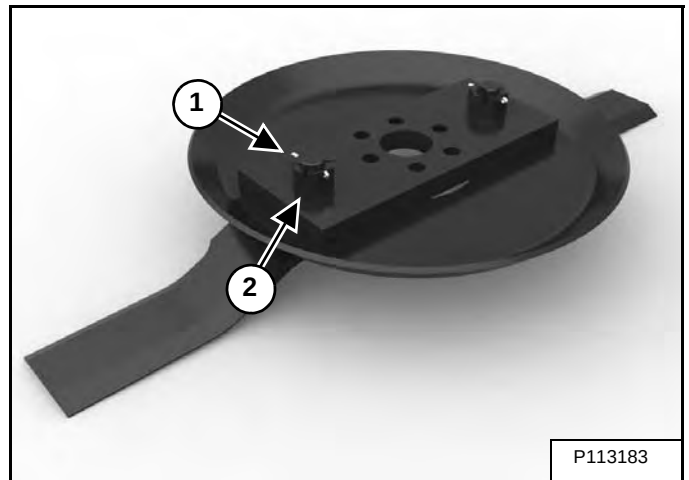


NOTE: For servicing the blades, the easiest method is to remove the blade and blade mount as an assembly. Then place the blade / blade mount assembly on a work bench to remove the blades. The blade / blade mount assembly weights approximately 30 kg (66 lb) so have a second person help during this removal procedure.

With the help of a second person supporting the blade / blade mount assembly, remove the six bolts (Item 1) and remove the blade / blade mount assembly (Item 2) [Figure 114].

NOTE: Install a socket on the end of the blade nut or put a pipe over the end of the blade nut to keep the blade / blade mount assembly from rotating while removing and installing the six bolts.

Figure 115



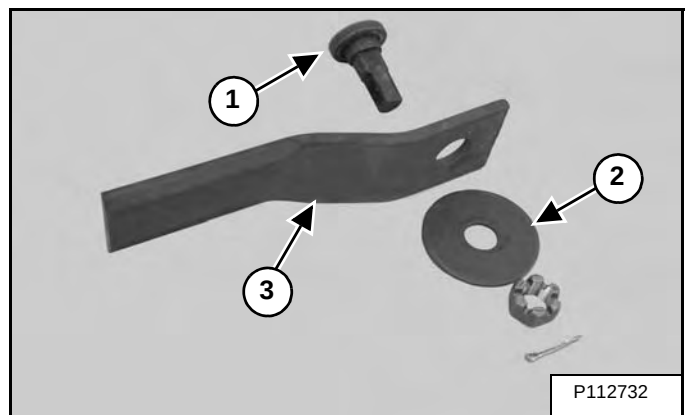
Remove the cotter pin (Item 1). Hold the blade mount from rotating and remove the lock nut (Item 2) [Figure 115] from the blade bolt.

Installation: Always use a new lock nut, bolt and cotter pin during assembly. Tighten the lock nut to 339 N•m (250 ft-lb) torque. Tighten the nut additionally until the cotter pin hole is aligned. Install the cotter pin and bend the ends to secure the cotter pin in place [Figure 115].

Repeat the procedure for the other blade(s).

Check the condition of the blade and mounting hardware. Replace worn parts as needed.

Figure 116



The blade bolt (Item 1) will only fit in the mounting plate one way. Install the washer (Item 2) between the blade (Item 3) [Figure 116] and the mounting plate.

Reinstall the blade / blade mount assembly (Item 2) and the six bolts (Item 1) [Figure 114].

Installation: Tighten the six bolts to 450 N•m (330 ft-lb) torque.

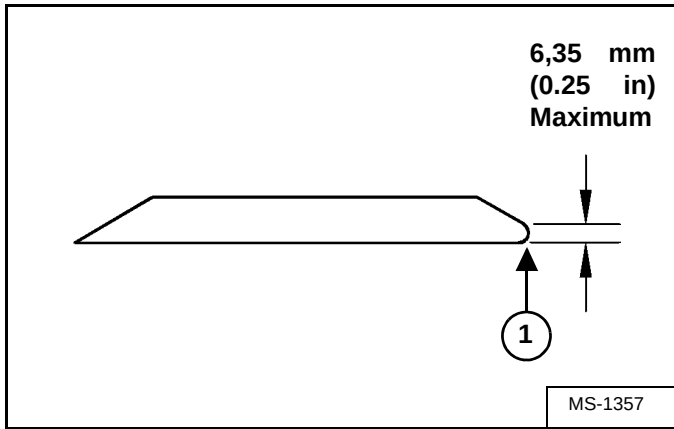
REMOVAL AND INSTALLATION OF BLADE (CONT'D)

Procedure(s) (Cont'd)

When the blades are dull, the blade / blade assembly can be switched between the two motors so that the opposite side of the blade can be used for cutting.

NOTE: The left and right motors rotate in opposite directions. This allows the blade / blade assembly to be switch between the motors to utilize both sides of the blade before blade replacement is needed.

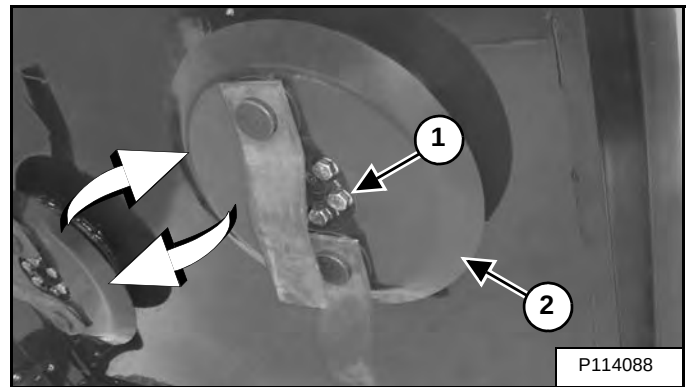
Figure 117



If one of the blade edges (Item 1) [Figure 117] is worn to over 6,35 mm (0.25 in), the blade / blade assembly can be can be switch between the motors.

When both edges of the blade are worn over 6,35 mm (0.25 in), replace the blades. **DO NOT SHARPEN OR WELD BLADES.**

Figure 118



NOTE: The blade / blade mount assembly weights approximately 30 kg (66 lb) so have a second person help during this removal procedure.

With the help of a second person supporting the blade / blade mount assembly, remove the six bolts (Item 1) and remove the blade / blade mount assembly (Item 2) [Figure 114].

NOTE: Install a socket on the end of the blade nut or put a pipe over the end of the blade nut to keep the blade / blade mount assembly from rotating while removing and installing the six bolts.

Remove the second blade / blade assembly and reinstall it onto the opposite motor.

Reinstall the blade / blade mount assembly (Item 2) and the six bolts (Item 1) [Figure 114].

Installation: Tighten the six bolts to 450 N•m (330 ft-lb) torque.

REMOVAL AND INSTALLATION OF CHAIN SHIELD

Procedure(s)

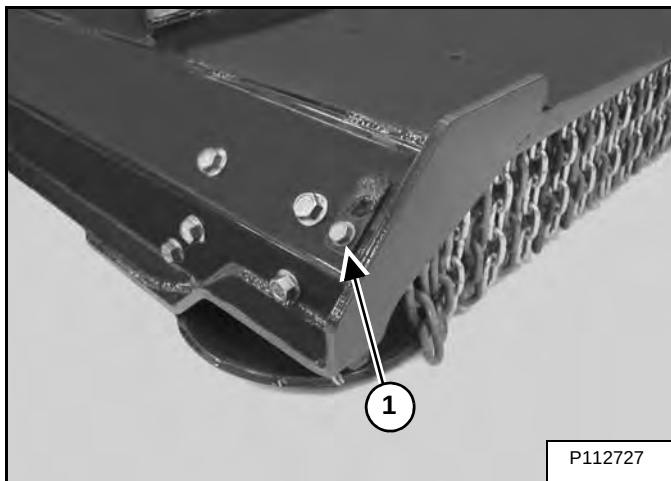
Replace any worn or missing chains from the front of the rotary cutter.

Use the following procedure to replace front chains:

There are two rods holding the front chain shield in position. Each rod is installed from each side of the frame.

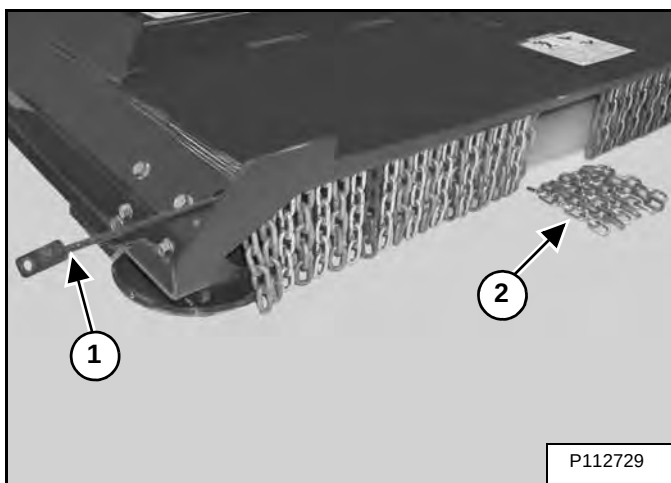
The rod ends butt against one another in the middle of the frame.

Figure 119



Remove the bolt (Item 1) [Figure 119] from the rod retainer.

Figure 120



Pull the rod (Item 1) from the rotary cutter frame to remove the chain shield (Item 2) [Figure 120].

Replace the chains as needed.

REMOVAL AND INSTALLATION OF SKID SHOE

Procedure

Replace worn skid shoes from the front of the rotary cutter.

Use the following procedure to replace skid shoes:

Disconnect the rotary cutter auxiliary hoses at the machine couplers.

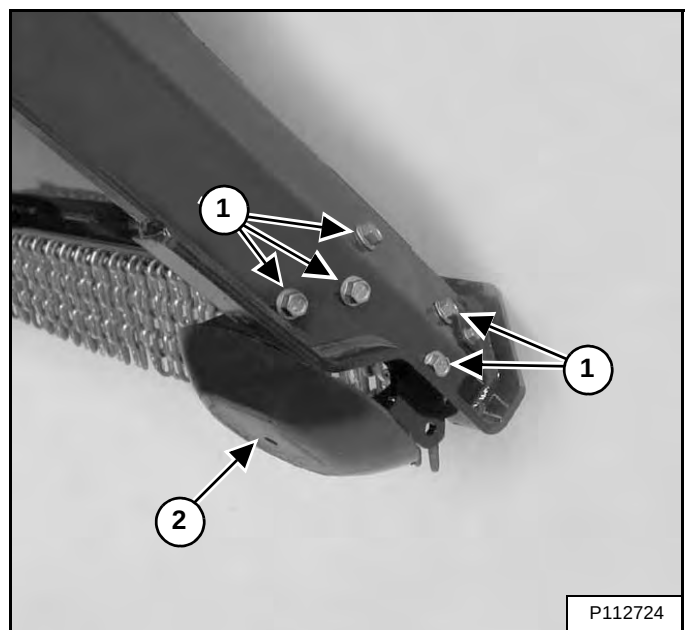
Position the rotary cutter as shown [Figure 111], [Figure 112] and [Figure 113] by raising the lift arms and tilting the attachment down until the front of the rotary cutter contacts the ground or is tilted fully down. Use this position for blade service or debris clean out.

Before servicing, be sure the rotary cutter is tilted fully down, AN APPROVED LIFT ARM SUPPORT DEVICE (Item 1) [Figure 111], [Figure 112] and [Figure 113] IS INSTALLED, auxiliary hydraulic hoses are disconnected, and engine is stopped.

NOTE: Approved lift arm support device style can vary. See the machine's Operation & Maintenance Manual for additional information.

Stop the engine, engage the parking brake and exit the machine.

Figure 121



Remove the five bolts (Item 1) from the skid shoe. Remove the skid shoe (Item 2) [Figure 121].

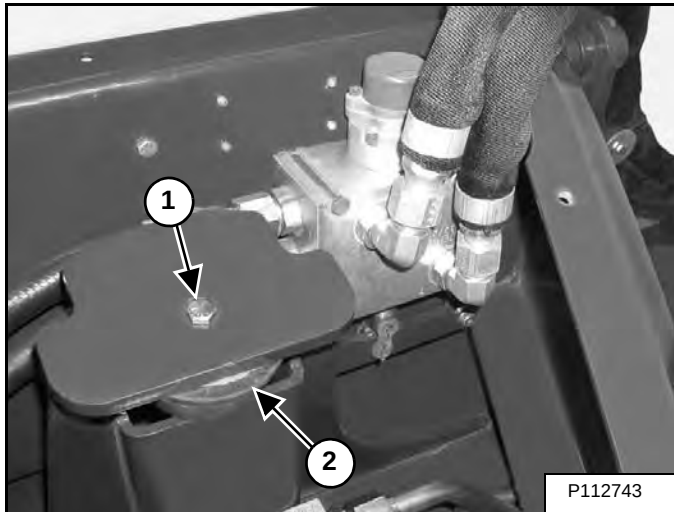
Installation: Tight the bolts and nuts to 122 - 136 N•m (90 - 100 ft-lb) torque.

REMOVAL AND INSTALLATION OF RUBBER STOPS

Procedure

Swing Stops

Figure 122

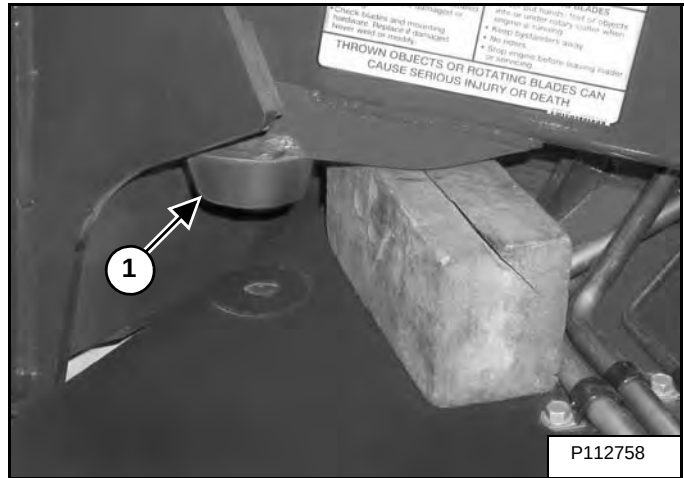


Remove the cover. (See COVER on Page 84.)

Remove the bolt (Item 1) and nut. Remove the rubber stop (Item 2) [Figure 122]. Install a new rubber stop. Install the bolt and nut and tighten.

Replace the rubber stop(s) as needed.

Figure 123

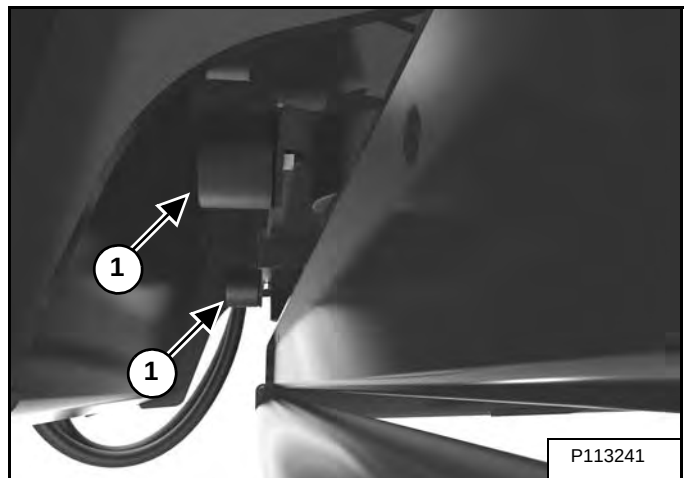


Raise the frame and place a block of wood between the deck and the frame for access to the rubber stops (both sides) [Figure 123]. Lower the rotary cutter until the frame is resting against the block of wood. Stop the engine and exit the machine.

Remove the bolt and nut and remove the rubber stop (Item 1) [Figure 123] (both sides). Install a new rubber stop. Install the bolt and nut and tighten.

Replace the rubber stops as needed.

Figure 124



Raise the rotary cutter and set the rotary cutter frame securely on blocks. Tilt the Bob-Tach forward until the Bob-tach frame does not contact the rubber stops (Item 1) [Figure 124]. Lower the rotary cutter until the frame is resting against the block of wood. Stop the engine and exit the machine.

Remove the bolt and nut and remove the rubber stop (Item 1) [Figure 124] (both sides). Install a new rubber stop. Install the bolt and nut and tighten.

Replace the rubber stops as needed.

Reinstall the cover. (See COVER on Page 84.)

MACHINE SIGN TRANSLATIONS

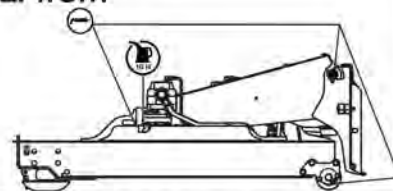
MACHINE SIGN TRANSLATIONS	93
Service Schedule (7236951)	93
Danger (7236950)	95
Danger (7236954)	96
Important (7236953)	97



ROTARY CUTTER SERVICE SCHEDULE

EVERY 10 HOURS OF OPERATION:

1. Check blade shut-off device for proper function.
2. Check blades and mounting plate for cracks or damage. Replace if necessary.
3. Check blade mounting hardware and blade mounting plate hardware.
Check cotter pin is properly fastened.
4. Check chains, deck, shields and rear roller. Repair if damaged or replace if necessary.
5. Check for damaged or missing decals. Replace if necessary.
6. Check for damaged or leaking hydraulic hoses or fittings.
Replace if necessary.
7. Clean debris, leaves, grass and flammable material from deck area and under covers.
8. Lubricate all (5) grease points.
9. Check lubrication level in gearbox
(SAE 90 gear lube).



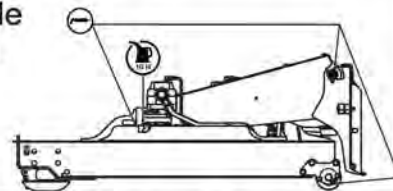
SEE ATTACHMENT OPERATION AND MAINTENANCE MANUAL
FOR MORE INSTRUCTIONS.

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PROGRAMA DE SERVICIO DE LA CORTADORA ROTATIVA

CADA 10 HORAS DE OPERACIÓN

1. Revise que el dispositivo de cierre de la cuchilla funcione adecuadamente.
2. Revise la presencia de grietas o daños en las cuchillas y la placa de fijación.
Reponga, si es del caso.
3. Revise el armamento de fijación de la cuchilla y el armamento de la placa de fijación. Revise que el pin de chaveta esté bien sujeto.
4. Revise las cadenas, plataforma, protectores y rodillo posterior. Repare si están dañados o reponga, si es del caso.
5. Revise la presencia de calcomanías dañadas o que faltan. Reponga, si es del caso.
6. Revise la presencia de mangueras o accesorios hidráulicos dañados o con fugas. Reponga, si es del caso.
7. Retire escombros, hojas, grama y material inflamable del área de la plataforma y debajo de las cubiertas.
8. Lubrique todos los 5 puntos de engrase.
9. Revise el nivel de lubricación en la caja de engranajes (lubricante SAE 90)



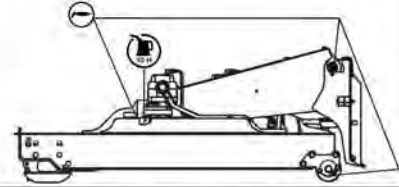
CONSULTE EL MANUAL DE OPERACIÓN Y MANTENIMIENTO DEL
ADITAMENTO PARA MÁS INSTRUCCIONES.

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TABLEAU DES ENTRETIENS DE LA DÉBROUSSAILLEUSE ROTATIVE

TOUTES LES 10 HEURES D'UTILISATION :

1. Vérifiez que le dispositif d'arrêt des lames fonctionne bien.
2. Vérifiez que les lames et la plaque de montage sont exemptes de fissures et de dommages. Remplacez-les au besoin.
3. Vérifiez les pièces de fixation de la lame et de la plaque de montage de la lame. Vérifiez que la goupille fendue est bien fixée.
4. Vérifiez les chaînes, la plateforme, les protections et le rouleau arrière. Réparez-les en cas de dommages ou remplacez-les le cas échéant.
5. Vérifiez que les autocollants ne sont ni manquants ni endommagés. Remplacez-les au besoin.
6. Vérifiez que les raccords et flexibles hydrauliques ne présentent ni fuites ni dommages. Remplacez-les au besoin.
7. Nettoyez la zone de la plateforme et le dessous des carter de tous débris, feuilles, herbe et matériaux inflammables.
8. Lubrifiez tous les (5) points de graissage.
9. Vérifiez le niveau du lubrifiant dans la boîte d'engrenages (lubrifiant à engrenage SAE 90).



POUR PLUS D'INSTRUCTIONS, CONSULTEZ LE MANUEL D'UTILISATION
ET D'ENTRETIEN DE L'ACCESSOIRE.

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Danger (7236950)

⚠ DANGER		⚠ PELIGRO	
			
THROWN OBJECTS • Clear mowing area of debris. • Never operate rotary cutter in the vicinity of other persons. Objects can be thrown more than several hundred feet. • Keep all chains and shields installed. Repair or replace if damaged or missing. • Check blades and mounting hardware. Replace if damaged. Never weld or modify.	ROTATING BLADES • Never put hands, feet or objects into or under rotary cutter when engine is running. • Keep bystanders away. • No riders. • Stop engine before leaving loader or servicing.	OBJETOS ARROJADOS • Despeje los desperdicios del área que va a segar. • Nunca use la cortadora rotativa cerca de otras personas. Los objetos pueden ser arrojados más de varios metros. • Mantenga todas las cadenas y protectores instalados. Repare o reponga si están dañados o faltan. • Revise las placas y el armamento de fijación. Reponga si están dañados. Evite soldar o modificarlos.	CUCHILLAS ROTATIVAS • Nunca coloque las manos, pies u objetos dentro o debajo de la cortadora rotativa cuando el motor está en marcha. • Mantenga a los transeúntes alejados. • No transporte pasajeros. • Detenga el motor antes de abandonar o dar servicio al cargador.
THROWN OBJECTS OR ROTATING BLADES CAN CAUSE SERIOUS INJURY OR DEATH		LOS OBJETOS ARROJADOS O LAS CUCHILLAS QUE ROTAN PUEDEN PROVOCAR LESIONES GRAVES O FATALIDADES.	
85801 SW 7236950 GHS © 2008 John Deere LLC. All rights reserved.		85801 SW 7236950 GHS © 2008 John Deere LLC. All rights reserved.	

⚠ DANGER	
	
OBJETS PROJÉTÉS • Ôtez tous les débris de la zone de coupe. • N'utilisez jamais la débroussaillieuse rotative à proximité d'autres personnes. Des objets peuvent être projetés à plusieurs dizaines de mètres. • Maintenez toutes les chaînes et protecteurs en place. Réparez-les ou remplacez-les s'ils sont endommagés ou s'ils manquent. • Vérifiez les lames et la visserie de fixation. Remplacez-les en cas de dommages. N'effectuez jamais de soudure sur une pièce et ne la modifiez pas.	LAMES ROTATIVES • Ne mettez jamais les mains, les pieds ou des objets dans ou sous la débroussaillieuse rotative lorsque le moteur tourne. • Gardez les spectateurs à distance. • Ne transportez personne. • Arrêtez le moteur avant de quitter la chargeuse ou avant toute réparation.
DES OBJETS PROJÉTÉS OU DES LAMES EN ROTATION PEUVENT ENTRAÎNER DES BLESSURES GRAVES VOIRE MORTELLES	
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Approved lift arm support. (Style can vary. See loader's operation manual.)

▲ DANGER

ROTARY CUTTER AND LIFT ARMS CAN DROP OR BLADES CAN ROTATE CAUSING SERIOUS INJURY OR DEATH.

BEFORE SERVICING UNDER RAISED ROTARY CUTTER

1. Disconnect auxiliary hydraulic hoses.
2. Raise lift arms and tilt rotary cutter fully down.
3. Install approved lift arm support.
4. Stop engine.

OPERATION INSTRUCTIONS

IF ROTARY CUTTER IS RAISED, BLADE ROTATION WILL STOP.

TO START BLADE ROTATION:

1. Lower rotary cutter flat on the ground.
2. Activate loader auxiliary hydraulics to start blade rotation.
3. Activate loader auxiliary hydraulics to start blade rotation.

TO RE-START BLADE ROTATION:

1. Deactivate loader auxiliary hydraulics.
2. Lower rotary cutter flat on the ground.
3. Activate loader auxiliary hydraulics to start blade rotation.

SEE ATTACHMENT OPERATION AND MAINTENANCE MANUAL FOR MORE INSTRUCTIONS.

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▲ PELIGRO

LA CORTADORA ROTATIVA Y BRAZOS ELEVADORES PUEDEN CAER O LAS CUCHILLAS PUEDEN ROTAR PROVOCANDO LESIONES GRAVES O FATALIDADES.

ANTES DE DAR SERVICIO DEBAJO DE LA CORTADORA ROTATIVA LEVANTADA

- Desconecte las mangueras de los auxiliares hidráulicos.
- Suba los brazos elevadores e incline la cortadora rotativa completamente hacia abajo.
- Instale el soporte aprobado del brazo elevador.
- Detenga el motor.



Soporte aprobado del brazo elevador. (El estilo puede variar. Consulte el manual de operación del cargador.)

INSTRUCCIONES DE OPERACIÓN

LA ROTACIÓN DE LA CUCHILLA SE DETIENE SI LA CORTADORA ROTATIVA SE LEVANTA PARA REACTIVAR LA ROTACIÓN DE LA CUCHILLA

- Desactive los auxiliares hidráulicos del cargador.
- Descienda la cortadora rotativa hasta el suelo.
- Active los auxiliares hidráulicos del cargador para comenzar la rotación de la cuchilla.

PARA ACTIVAR LA ROTACIÓN DE LA CUCHILLA

- Descienda la cortadora rotativa hasta el suelo.
- Active los auxiliares hidráulicos del cargador para comenzar la rotación de la cuchilla.

CONSULTE EL MANUAL DE OPERACIÓN Y MANTENIMIENTO DEL ADITAMENTO PARA MÁS INSTRUCCIONES.

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104001 1 SW 72028254 swAR

Articteur de bras de levage approuvé.
(Le modèle peut varier. Consultez le manuel d'utilisation de la chargeuse).

AVANT TOUTE OPÉRATION D'ENTRETIEN SOUS LA DÉBOUSSAILLEUSE ROTATIVE RELEVÉE :

1. Déconnectez les flexibles des auxiliaires hydrauliques.
2. Relevez les bras de levage et faites basculer complètement la débroussailleuse rotative.
3. Installez un anriret de bras de levage approuvé.
4. Arrêtez le moteur.

LA DÉBOUSSAILLEUSE ET LES BRAS DE LEVAGE PEUVENT TOMBER ET LES LAMES PEUVENT TOURNER ET PROVOQUER DES BLESSURES GRAVES, VOIRE MORTELLES.

AVANT TOUTE OPÉRATION D'ENTRETIEN SOUS LA DÉBOUSSAILLEUSE ROTATIVE RELEVÉE :

1. Déconnectez les flexibles des auxiliaires hydrauliques.
2. Relevez les bras de levage et faites basculer complètement la débroussailleuse rotative.
3. Installez un anriret de bras de levage approuvé.
4. Arrêtez le moteur.

LA DÉBOUSSAILLEUSE ROTATIVE EST RELEVÉE, LES LAMES S'ARRÊTENT.

POUR REDEMARRER LA ROTATION DE LA LAME :

1. Désactivez les auxiliaires hydrauliques de la chargeuse.
2. Abaissez la débroussailleuse rotative à plat sur le sol.
3. Activez les auxiliaires hydrauliques de la chargeuse pour démarrer la rotation des lames.

POUR DÉMARRER LA ROTATION DE LA LAME :

1. Abaissez la débroussailleuse rotative à plat sur le sol.
2. Activez les auxiliaires hydrauliques de la chargeuse pour démarrer la rotation des lames.

POUR PLUS D'INSTRUCTIONS, CONSULTEZ LE MANUEL D'UTILISATION ET D'ENTRETIEN DE L'ACCESSOIRE.

INSTRUCTIONS D'UTILISATION

INSTRON 1 SW 729854 FCA

Important (7236953)

MOTOR IDENTIFICATION		
SERIAL NUMBER PREFIX	MODEL	FLOW RANGE
B37K	66" (1676 MM) STD FLOW	15-24 GPM (57-91 LPM)
AYVY	72" (1829 MM) STD FLOW	15-26 GPM (57-98 LPM)
B376	66" (1676 MM) HIGH FLOW	24-36 GPM (91-136 LPM)
B375	72" (1829 MM) HIGH FLOW	24-40 GPM (91-151 LPM)
B377	80" (2032 MM) HIGH FLOW	

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Bobcat®

SPECIFICATIONS

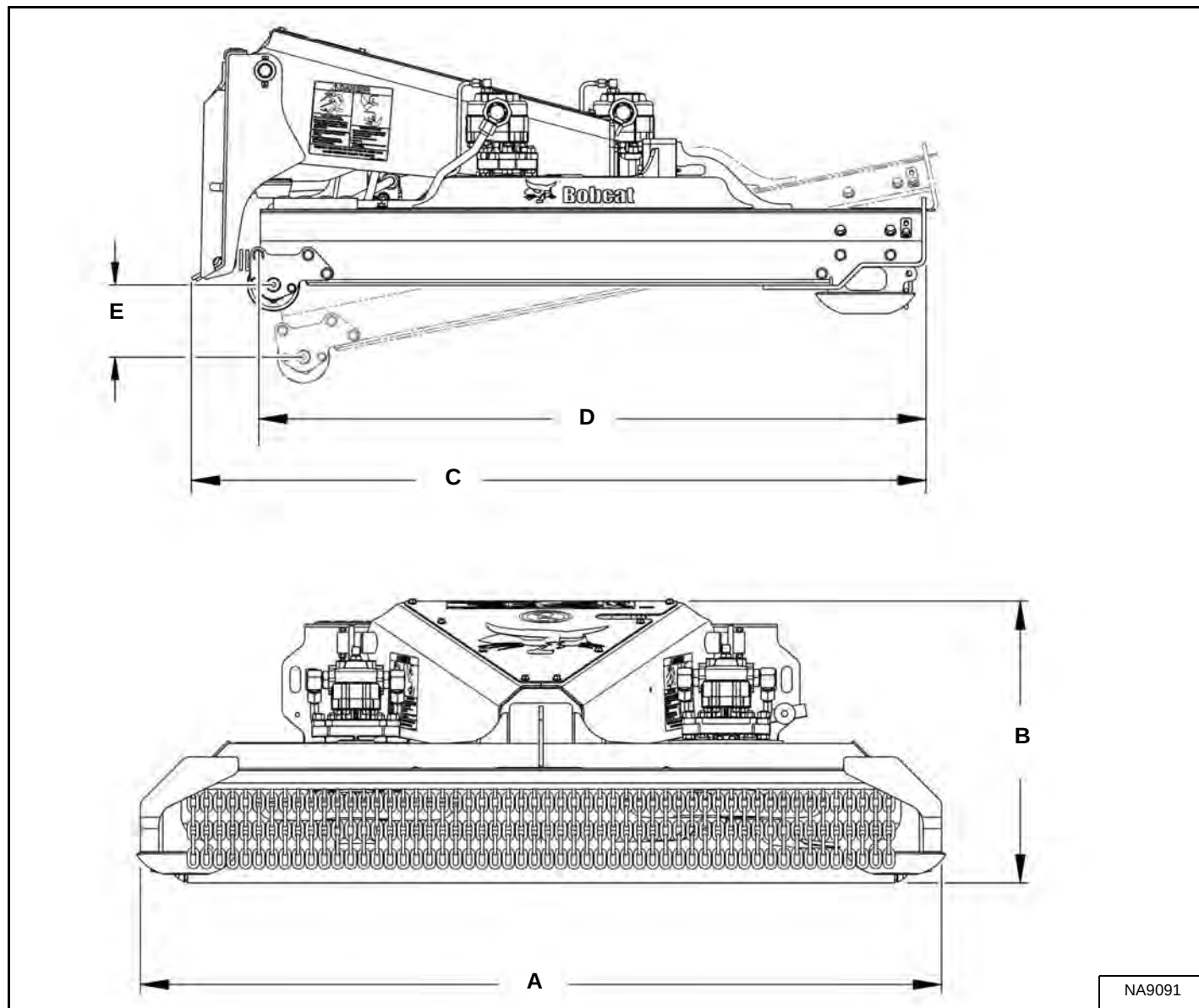
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ROTARY CUTTER SPECIFICATIONS

Dimensions

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



NA9091

Model	66 and 66HF	72 and 72HF	80
Overall Attachment Width (A)	1786 mm (70.3 in)	1938 mm (76.3 in)	2141 mm (84.3 in)
Overall Attachment Height (B)	673 mm (26.5 in)	673 mm (26.5 in)	673 mm (26.5 in)
Overall Attachment Length (C)	1707 mm (67.2 in)	1788 mm (70.4 in)	1785 mm (73.8 in)
Deck Length (D)	1552 mm (61.1 in)	1633 mm (64.3 in)	1720 mm (67.7 in)
Vertical travel (E)	203 mm (8.0 in)	203 mm (8.0 in)	203 mm (8.0 in)
Weight	652 kg (1437 lb)	680 kg (1500 lb)	717 kg (1581 lb)
Cutting Width	1676 mm (66 in)	1829 mm (72 in)	2032 mm (80 in)
Cutting Height With Standard Blade	76,2 mm (3.0 in)		

ROTARY CUTTER SPECIFICATIONS (CONT'D)

Performance

Model	66	66HF	72	72HF	80
Rotary Cutter Capacity	Brush material up to 76 mm (3 in) in diameter				
Hydraulic Flow Range	57 - 91 L/min (15 - 24 U.S. gpm)	91 - 136 L/min (24 - 36 U.S. gpm)	57 - 98 L/min (15 - 26 U.S. gpm)	91 - 121 L/min (24 - 40 U.S. gpm)	91 - 121 L/min (24 - 40 U.S. gpm)
Blade Tip Speed (Approximate):					
Minimum Flow	3474 m/min (11399 ft/min)	3474 m/min (11399 ft/min)	3024 m/min (9922 ft/min)	3024 m/min (9922 ft/min)	3330 m/min (10932 ft/min)
Maximum Flow	5556 m/min (18238 ft/min)	5196 m/min (17064 ft/min)	5244 m/min (17197 ft/min)	5040 m/min (16536 ft/min)	5550 m/min (18219 ft/min)
CUTTING HEIGHT					
Standard Blade - with a 101 mm (4.00 in) offset (Qty. 2)	76 mm (3.0 in) cutting height				
Optional Blade - with a 76mm (3.00 in) offset (qty 2)	101 mm (4.0 in) cutting height				
Rear Roller	Standard				
Front Skid Shoes	Standard				

WARRANTY

WARRANTY105



WARRANTY

Bobcat Attachments

Bobcat Company warrants to its authorized dealers and authorized dealers of Bobcat Equipment Ltd., who in turn warrant to the original owner, that each new Bobcat attachment will be free from proven defects in material and workmanship for twelve (12) months after delivery by the authorized Bobcat dealer to the original buyer.

During the warranty period, the authorized Bobcat dealer shall repair or replace, at Bobcat Company's option, without charge for parts and labor, any part of the Bobcat product which fails because of defects in material or workmanship. The owner shall provide the authorized Bobcat dealer with prompt written notice of the defect and allow reasonable time for replacement or repair. Bobcat Company may, at its option, require failed parts to be returned to the factory. Travel time of mechanics and transportation of the Bobcat product to the authorized Bobcat dealer for warranty work are the responsibility of the owner. The remedies provided in this warranty are exclusive.

This warranty does not cover replacement of scheduled service items and high wear items. The owner shall rely solely on the warranty, if any, of the respective manufacturers thereof. This warranty does not cover damages resulting from abuse, accidents, alterations, use of the Bobcat product as an attachment on any equipment not approved by Bobcat Company, air flow obstructions, or failure to maintain or use the Bobcat product according to the instructions applicable to it.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND CONDITIONS, EXCEPT THE WARRANTY OF TITLE. BOBCAT COMPANY DISCLAIMS ALL OTHER WARRANTIES AND CONDITIONS, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL BOBCAT COMPANY OR THE AUTHORIZED BOBCAT DEALER BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, LOSS OR INTERRUPTION OF BUSINESS, LOST PROFITS, OR LOSS OF MACHINE USE, WHETHER BASED ON CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY, STATUTE OR OTHERWISE, EVEN IF BOBCAT COMPANY OR THE AUTHORIZED BOBCAT DEALER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE TOTAL LIABILITY OF BOBCAT COMPANY AND THE AUTHORIZED BOBCAT DEALERS WITH RESPECT TO THE PRODUCT AND SERVICES FURNISHED HEREUNDER SHALL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCT UPON WHICH SUCH LIABILITY IS BASED.





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