

Stump Bucket All Models

Operation and Maintenance Manual



INCLUDES MINI & GRAPPLE



888-376-7027 | BlueDiamondAttachments.com

Register your
WARRANTY
within 30 days
of purchase



BD-092

Introduction: Owner Information

Thank you for your decision to purchase a Blue Diamond® Stump Bucket. To ensure maximum performance of your equipment, it is mandatory that you thoroughly study the Operator's Manual and follow the recommendations. Proper operation and maintenance are essential to maximize equipment life and prevent personal injury.

Operate and maintain this equipment in a safe manner and in accordance with all applicable local, state, and federal codes, regulations and/or laws. Follow all on-product labeling and instructions.

Make sure that all personnel have read this Operator's Manual and thoroughly understand safe and correct operating, installation and maintenance procedures.

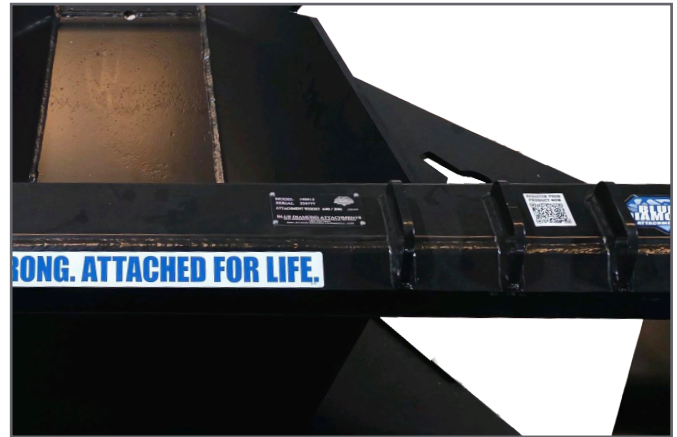
Blue Diamond® is continually working to improve its products. Blue Diamond® reserves the right to make any improvements or changes as deemed practical and possible without incurring any responsibility or obligation to make any changes or additions to equipment sold previously.

Although great care has been taken to ensure the accuracy of this publication, Blue Diamond® makes no warranty or guarantee of any kind, written or expressed, implied or otherwise with regard to the information contained within this manual. Blue Diamond® assumes no responsibility for any errors that may appear in this manual and shall not be liable under any circumstances for incidental, consequential or punitive damages in connection with, or arising from the use of this manual.

Keep this manual available for frequent reference. All new operators or owners must review the manual before using the equipment and annually thereafter. Contact your Blue Diamond® Attachments Dealer for assistance, information, or additional copies of the manual. Contact www.bluediamondattachments.com or call 888-376-7027 for a complete list of dealers in your area.

Serial Number Location:

Please record attachment information in the space provided for future reference.



Model Number: _____

Serial Number: _____

Dealer Name: _____

Dealer Number: _____

Date of Purchase: _____

The serial number plate is located on the top of the frame near the center as shown above.

Always use your serial number when requesting information or when ordering parts.

NOTE: The directions left, right, front, and rear, as mentioned throughout this manual, are as viewed from the operator's position.

Table of Contents

Introduction: Owner Information	2	8. Specifications	29
1. Pre-Delivery Inspection Instructions (No Grapple)	4	8.1 Attachment Specifications for Mini Stump Bucket	29
1.1 Safety & Documentation	4	8.2 Attachment Specifications for Full Size Stump Bucket.	30
1.2 Visual Inspection	4	8.3 Attachment Specifications for Stump Bucket with	
1.3 Operational Test	4	Grapple	31
1.4 Final Delivery	4	8.4 Torque Specifications – Imperial	32
2. Pre-Delivery Inspection Instructions for Grapple	5	Warranty Policies.....	34
2.1 Safety & Documentation	5		
2.2 Visual Inspection	5		
2.3 Hydraulic System & Operational Test	5		
2.4 Final Delivery	5		
3. Introduction.....	6		
3.1 Attachment Identification	6		
3.2 About this Attachment	7		
3.3 Attachment Model Numbers	7		
4. Safety	8		
4.1 General Safety Information	8		
4.2 Operators	9		
4.3 Safety Guidelines	10		
5. Operation	12		
5.1 Pre-Operation Inspection	12		
5.2 Machine Requirements	13		
5.3 Transporting the Attachment	13		
5.4 Entering & Exiting the Prime Mover	14		
5.5 Attachment Installation	14		
5.6 Operating the Attachment	16		
5.7 Operating Tips	18		
6. Maintenance	20		
6.1 Service Schedule	20		
6.2 Maintenance Safety	21		
6.3 Daily Maintenance	22		
6.4 Seasonal Maintenance	22		
6.5 Lubrication	23		
6.6 Tooth Replacement	23		
6.7 Cleaning the Attachment	23		
6.8 Spare Parts & Accessories	24		
6.9 Storage	24		
6.10 Troubleshooting	25		
7. Parts	26		
7.1 Main Components – No Grapple	26		
7.2 Grapple Components	27		
7.3 Safety Decals	28		

1. Pre-Delivery Inspection Instructions (No Grapple)

Use this checklist to verify safety, function, and readiness prior to delivery.

END USER'S NAME: _____

DATE: _____

ITEM NUMBER & DESCRIPTION: _____

SERIAL NO.: _____

HOST MACHINE MAKE/MODEL: _____

1.1 Safety & Documentation

- ☐ Operation and Maintenance Manual is included.
- ☐ Safety decals are present and legible.
- ☐ Model and serial number plate is present and intact.

1.2 Visual Inspection

- ☐ Unit is free of shipping damage, dents, cracked welds, etc.
- ☐ Fasteners are properly torqued.

1.3 Operational Test

- ☐ Verify the host machine's hydraulic flow with a flow meter.

1.4 Final Delivery

- ☐ Maintenance schedule located in Operation and Maintenance Manual has been reviewed.
- ☐ Teeth change procedure and maintenance safety have been explained.
- ☐ Register the attachment for warranty by following the instructions below:
 - ☐ Fill out this form and email it to warranty@battachments.com

TECHNICIAN: _____

CUSTOMER: _____

DATE: _____

2. Pre-Delivery Inspection Instructions for Grapple

Use this checklist to verify safety, function, and readiness prior to delivery.

END USER'S NAME: _____

DATE: _____

ITEM NUMBER & DESCRIPTION: _____

SERIAL NO.: _____

HOST MACHINE MAKE/MODEL: _____

2.1 Safety & Documentation

- ☐ Operation and Maintenance Manual is included.
- ☐ Safety decals are present and legible.
- ☐ Model and serial number plate is present and intact.
- ☐ Verify required hydraulic flow range for customer's host machine.

2.2 Visual Inspection

- ☐ Unit is free of shipping damage, dents, cracked welds, etc.
- ☐ Verify cylinder cover is in place and secure.
- ☐ Ensure cylinder system is correctly lubricated.
- ☐ Fasteners are properly torqued.

2.3 Hydraulic System & Operational Test

- ☐ Hydraulic hose routing is appropriate for application.

- ☐ Fittings are properly tightened; verify no leakage.
- ☐ Quick couplers are correct and clean.
- ☐ Smooth operation; no hydraulic leaks or excessive vibration of attachment.
- ☐ Verify attachment has been connected to the host machine that will be used for operation and tested.
- ☐ Verify the host machine's hydraulic flow with a flow meter.

2.4 Final Delivery

- ☐ Maintenance schedule located in Operation and Maintenance Manual has been reviewed.
- ☐ Grease type and intervals were provided.
- ☐ Teeth change procedure and maintenance safety have been explained.
- ☐ Register the attachment for warranty by following the instructions below:
 - ☐ Fill out this form and email it to warranty@battachments.com

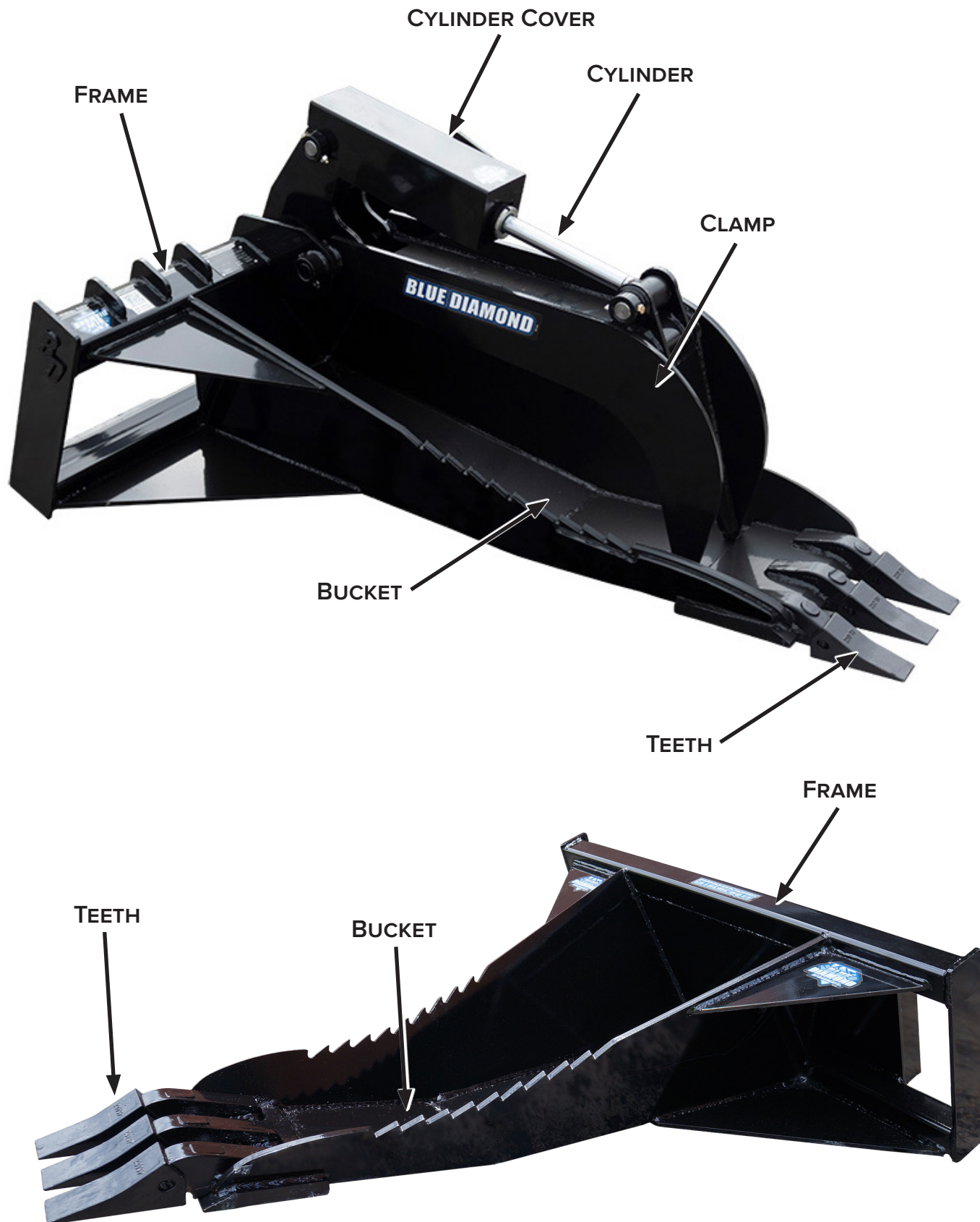
TECHNICIAN: _____

CUSTOMER: _____

DATE: _____

3. Introduction

3.1 Attachment Identification



3. Introduction

3.2 About this Attachment

Blue Diamond® Stump Buckets are engineered to be the heaviest-duty stump buckets in the industry. Designed for maximum leverage and aggressive digging, these buckets reach far under stumps and tear through roots using serrated side teeth – making removal faster, cleaner, and more controlled.

More than just stump removal tools, Blue Diamond® Stump Buckets are ideal for prying up fence posts, removing sidewalks and asphalt, digging ditches and swales, and handling tough demolition work. It's like having a crowbar mounted to the front of your skid steer. The Extreme Duty Stump Bucket builds on the same heavy-duty bucket design and adds a powerful hydraulic grapple, making it the most versatile stump bucket available.

3.3 Attachment Model Numbers

MODEL NUMBER	DUTY	GRAPPLE
101990	Mini	No Grapple
101991*	Mini	with Grapple
102006	Extreme	with Grapple
102015	Severe	No Grapple

*Discontinued.

4. Safety

4.1 General Safety Information



This **SAFETY ALERT SYMBOL** identifies important safety messages on the equipment and in the owner's manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.



The signal word **IMPORTANT** identifies procedures which must be followed to avoid damage to the machine.



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.



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.



The signal word **CAUTION** on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTE: Notes are used to indicate important information. This information may be repeated in other areas of the manual.

Terminology

Host Machine, Machine, Prime Mover:

- The Stump Bucket can be attached to many different pieces of equipment; therefore, the terms “host machine”, “machine”, and “prime mover” will be used. Host machine, machine, and prime mover mean any vehicle, tractor, or skid steer providing power to the attachment.

Attachment, Implement, Equipment:

- The Stump Bucket is the tool that is being attached to the host machine; therefore, the terms “attachment”, “implement”, and “equipment” will be used. The attachment, implement, and equipment mean any tool that is being used on any vehicle, tractor, or skid steer being used for different applications.

Operating Safety

- Read and follow instructions in this manual and the machine's Operator's Manual before operating.
- The manual must always remain with the machine. In case of loss or damage, request a new copy from your dealer or from Blue Diamond®.
- Strictly follow all rules prescribed by the safety pictograms/decals applied to the machine. Ensure that all safety pictograms/decals are legible. If pictograms/decals are worn, they must be replaced with new ones obtained from Blue Diamond® and placed in the position indicated by this manual.
- Before using the machine, make sure that all safety devices are installed and in good working condition. In case of damaged or missing shields, replace them immediately.
- It is absolutely forbidden to remove or alter safety devices and/or safety precautions
- Pay maximum attention to avoid any accidental contact with rotating parts of the machine.
- If the use of the machine is required at night or in conditions of reduced visibility, use the lighting system of the prime mover and an auxiliary lighting system if required.

4. Safety

4.2 Operators

Qualified Operators

The operator is a person who is suited to the work and is physically and psychologically able to withstand the demands connected with operating the equipment for its intended use. The operator must not allow anyone to approach the machine while it is working and must not allow external personnel to operate the machine or attachment.

The operator is to follow the given instructions in this manual and the machine operator's manual in order to obtain maximum performance, minimal fuel consumption, and maximum safety for himself and for others.

The operator is responsible for scrupulously observing all the instructions given in this manual.



DANGER



AVOID SERIOUS INJURY OR DEATH

Operators must receive instructions before operating the machine. Untrained operators can cause serious injury or death.

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 equipment. For an operator to be qualified, he or she must have read and understood the instructions of this manual, he or she must make adequate preparation for the proper use of the machine, and he or she must hold a driving license.

In case of doubt regarding the use of the machine and/or the interpretation of this manual, the operator must contact either their dealer or Blue Diamond®.

Operator Training

- 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.
- It is the skill, care, common sense, and good judgment of the operator that will determine how efficiently and safely the job is performed.
- The new operator must start in an area without bystanders and use all the controls until he or she can operate the machine safely under all conditions of the work area.

Operator Safety

- Any use of the machine other than the intended use is a non-intended use and is considered to be unauthorized and dangerous. Blue Diamond® is not liable for any damage or injury resulting from non-intended use.
- Before starting, and during operation of the attachment, make sure there are no people or animals in the operation area.
- During operation, adjustment, maintenance, repairing, or transportation of the machine, the operator must always use appropriate Personal Protective Equipment (PPE) including but not limited to safety glasses, working gloves, dust mask, safety helmet, and hearing protection.
- Do not operate the attachment or machine while wearing loose fitting clothing that can be entangled or caught in parts of the machine.
- Do not operate the implement when tired, not in good condition, or under the influence of alcohol or drugs.

4. Safety

4.3 Safety Guidelines

Operating Safety

- Read and follow instructions in this manual and the machine's Operator's Manual before operating.
- Under no circumstances should young children be allowed to work with this equipment.
- This equipment is dangerous to persons unfamiliar with its operation.
- Check for overhead and/or underground lines before operating equipment.
- 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 attachment is securely fastened to the machine.
- Make sure all the machine controls are in the NEUTRAL before starting the machine.
- Operate the equipment only from the operator's position.
- Operate the equipment according to the Operator's Manual.
- When learning to operate the equipment, 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 equipment.
- The equipment must be used ONLY on approved machines.
- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.
- Do not make any adjustments or repairs on the equipment while the machine is running.
- Keep shields and guards in place. Replace if damaged.
- DO NOT operate equipment in poor visibility conditions such as fog, darkness, or any conditions that limit clear visibility to less than 300 feet (100 m) in front of and to the sides of the equipment.
- When conditions make it necessary to slow ground speed, shift to a lower gear rather than reducing engine speed.
- The operator is responsible for the safety of all people in the vicinity of the operating area. If any person enters the operating area, the operator must immediately stop the machine and attachment.
- Make sure everyone on site is accounted for and their location is known.
- DO NOT operate in a work area that has not been inspected for foreign debris and obstacles.
- Remove any foreign objects and clearly mark any objects that cannot be removed.
- Know the capabilities of your equipment and practice its operation to become familiar with the controls, emergency shut down procedures, and the way it handles your machine.
- Wear safety glasses, gloves, hearing protection, and other protective clothing when required.

Machine Requirements and Capabilities

- The machine's operator's cab should be equipped with a thermoplastic polycarbonate or similar material front window, and similar protection on the sides of the operator's cab before operating the equipment.
- Keep bystanders clear of moving parts and the work area. Keep children away.
- Do not exceed 3,200 psi (220 bar) operating pressure.
- Use caution on slopes and near banks and ditches to prevent overturn.

4. Safety

4.3 Safety Guidelines Cont'd

Fire Prevention Safety

- Flammable debris (leaves, grass, etc.) must be removed regularly. If flammable debris is allowed to accumulate, it can cause a fire hazard. Clean often to avoid this accumulation.
- The equipment's cylinder compartment 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.

Transporting Safety

- Comply with state and local laws governing highway safety and movement of machinery on public roads.
- Check local laws for all highway lighting and marking requirements.
- Always yield to oncoming traffic and move to the side of the road so any following traffic may pass.
- Never allow riders on either machine or equipment.
- If transporting the equipment on a truck or trailer, make sure the equipment is properly secured to the transport vehicle.

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.

Personal Protective Equipment



Proper Work Clothes: To help ensure your safety as a designated operator wear proper work clothes including tight fitting clothes, protective gloves, and shoes.



Hand Protection: To help ensure your safety as a designated operator wear protective gloves.



Protective Shoes: To help ensure your safety as a designated operator wear protective shoes.



Safety Helmet: To help ensure your safety as a designated operator wear a safety helmet.



Safety Helmet and Eye/Ear Protection: To help ensure your safety as a designated operator wear a safety helmet and eye/ear protection.

5. Operation

5.1 Pre–Operation Inspection

Before operating the Stump Bucket for the first time and each time thereafter, use the following list as a guideline during equipment inspection.



WARNING



AVOID SERIOUS INJURY OR DEATH

- Disengage machine's auxiliary hydraulics, engage the machine's parking brake, stop the engine, and make sure all moving parts are completely stopped before connecting, disconnecting, adjusting, or cleaning equipment.
- Always keep shields and guards in place when using the equipment.
- Disengage machine's auxiliary hydraulics for road travel.
- Keep hands, feet, and clothing away from rotating parts.

- Inspect the attachment for shipping damage. If damage does exist, do not operate until the damaged parts have been replaced or repaired.
- Lubricate the attachment per the schedule outlined in the Maintenance section. See "6.1 Service Schedule" on page 20.
- Check the attachment mounting frame for damage or cracks.
- Check that all shields and guards are in place.
- Check for loose hardware (i.e. nuts, bolts, screws, etc.), and tighten them if necessary.
- Check all welds on the attachment for wear and damage each time the attachment is removed from the machine.
- Check for damaged or missing safety decals. Replace if necessary.
- Inspect the machine's mounting frame. (See the machine's Operator's Manual for inspecting the mounting frame.) Replace any parts that are damaged, bent, or missing. Keep all fasteners tight. Look for cracked welds.

- Verify that the attachment is properly connected to the machine.



WARNING



Leaking fluids under pressure can enter the skin and cause serious injury or death. Immediate medical attention is required.

Wear goggles. Use cardboard to check for leaks.

- Check the condition of all hydraulic components for leaks. Repair as required.
- NOTE:** Do not operate with hydraulic leaks.
- Make sure all pivot pins are well lubricated and the clamp is moving freely. Re-grease if required.
 - Check for wear and tear on pins, linkages, cutting edges and replace any damaged and/or excessively worn parts.
 - Use only Blue Diamond® recommended replacement parts. Other parts may be substandard in fit and quality.
 - Ensure any damage or excessively worn parts are replaced.
 - Always wear safety goggles or glasses when inspecting equipment.

5. Operation

5.2 Machine Requirements



DANGER



FALLING DEBRIS OR OBJECTS WILL CAUSE SERIOUS INJURY OR DEATH

To protect the operator from any falling debris or objects, it is important that the machine's operator's cab should be equipped with a thermoplastic polycarbonate or similar material front windshield and similar protections on the sides of the operator's cab before operating the attachment.

Blue Diamond® recommends that the machine must be equipped with a thermoplastic polycarbonate or similar material front windshield and similar protections on the side of the operator's cab.

Only use the Stump Bucket on compatible host machines. Hydraulic flow must not exceed twenty-six gallons per minute (26 GPM) or ninety-eight liters per minute (98 L/min). Do not use high flow hydraulic when operating this attachment.



IMPORTANT



Do not use high flow hydraulics when operating the Stump Bucket as this could result in serious damage.

The host machine's relief pressure must not exceed 3,200 psi (220 bar). Consult the host machine's Operator's Manual for hydraulic flow and pressure specifications.

The Mini Stump Bucket must not be used on host machines rated higher than forty-five horsepower (45 HP). This can result in serious damage to the attachment.

The Stump Bucket for full-size skid steers, including those equipped with a grapple, must not be used on host machines rated higher than one hundred and twenty horsepower (120 HP). This can result in serious damage to the attachment.

See "8. Specifications" on page 29 – page 31 for minimum lift capacity required for each Stump Bucket. This does not include the potential weight of the load.

5.3 Transporting the Attachment



CAUTION



The operator in charge of the transportation and installation of the attachment must be familiar with the following instructions.

Be sure to pay careful attention to the weight of the Stump Bucket.

Disconnect the hydraulics from the host machine if equipped. See "Disconnecting Hydraulic Hoses" on page 15.

Clear dirt, rocks, and any other debris from the Stump Bucket.

Use a minimum of four (4) heavy duty ratchet straps or chains for the attachment's weight. See "8. Specifications" on page 29 – page 31 for more information.

Hook the ratchet straps over the attachment, avoiding the cylinder compartment to prevent additional stress, which could cause damage to the attachment.

Make sure the Stump Bucket is secured prior to heading towards the next location.

5. Operation

5.4 Entering & Exiting the Prime Mover



See the machine's Operator's Manual for detailed information on operating the loader.

Entering the Operator's Position

Use the safety treads, handles, and steps on the attachment and machine to enter the operator's position. Always maintain three (3) points of contact.

Skid Steer

When in the operator's position, secure the seatbelt, lower safety seat bar, start the engine, and release the parking brake.

Mini Skid Steer

When in the operator's position, face forward and grip the handles. Place both feet on the rear operator platform to engage the operator presence system, start the engine, and release the parking brake.

Leaving the Operator's Position



AVOID SERIOUS INJURY OR DEATH

- Always park on a flat, level surface.
- Lower lift arms and place attachment flat on the ground.
- Place all controls in **NEUTRAL**.
- Engage the parking brake.
- Stop the engine, and remove the key.
- Wait for all moving parts to stop.

SEE MACHINE'S OPERATOR'S MANUAL FOR ADDITIONAL INFORMATION.

Park the machine/attachment on a flat, level surface.

Place all controls in neutral, engage the parking brake, stop the engine, and wait for all moving parts to stop. Leave the operator's position.

5.5 Attachment Installation

Connecting Attachment to the Machine



CRUSH HAZARD

- Before moving the machine, look in all directions and make sure no bystanders, especially small children are in the work area. Do not allow anyone between the machine and attachment when approaching the attachment for connecting.
- Keep fingers and hands out of pinch points when connecting and disconnecting the attachment.

Before connecting to the attachment, inspect the machine's mounting plate. (See the machine's Operator's Manual for inspecting the mounting frame.)

Enter the operator's position. See "Entering the Operator's Position" on page 14.

Drive the machine slowly forward until the top edge of the machine's mounting plate is under the top flange of the attachment mounting frame.

Slowly tilt the machine's mounting plate back until the attachment mounting frame fully contacts the front of the machine's mounting plate.

Engage attachment locking levers/wedges. (See the machine's Operator's Manual for detailed information.)

5. Operation

5.5 Attachment Installation Cont'd

Connecting Attachment to the Machine Cont'd



WARNING



AVOID SERIOUS INJURY OR DEATH

The locking pins/wedges must extend through the holes in the attachment mounting frame. Failure to secure locking pins/wedges can allow attachment to come off.

**SEE MACHINE'S OPERATOR'S MANUAL FOR
ADDITIONAL INFORMATION.**

Leave the operator's position. See "Leaving the Operator's Position" on page 14.

Connecting Hydraulic Hoses



IMPORTANT



Thoroughly clean the quick couplers before making connections. Dirt can quickly damage the hydraulic system.

Verify that all hydraulic couplings are compatible with the host machine.

Remove dirt or debris from the male and female couplers. Visually inspect the couplers for corroding, cracking, damage, or excessive wear. Replace as needed.

Connect the attachment hydraulic hoses to the machine. The hydraulic hoses must be connected in the following order: return hose then pressure hose.

For the hydraulic hoses, the return hose must be connected before the pressure hose.

Pull on each hose to verify full connection is made.

Disconnecting Hydraulic Hoses



WARNING



AVOID SERIOUS INJURY OR DEATH

Hydraulic fluid, tubes, fittings, and quick couplers can get hot during operation. Be careful when connecting and disconnecting hydraulic hoses.

Relieve auxiliary hydraulic pressure. (See the machine's Operator's Manual for correct procedure.)

Disconnect attachment hydraulic hoses from the machine. The hoses must be disconnected in the following order: pressure hose then return hose.

The pressure hose must be disconnected before the return hose.

Disconnecting Attachment From the Machine

Relieve auxiliary hydraulic pressure. (See the machine's Operator's Manual for correct procedure.)

Park the machine and attachment on a flat, level surface. Lower the attachment flat on the ground.

Leave the operator's position. See "Leaving the Operator's Position" on page 14.

Disconnect attachment hydraulic hoses from the machine.

Disengage locking pins/wedges. (See the machine's Operator's Manual for correct procedure.)

Enter the operator's position. See "Entering the Operator's Position" on page 14.

Slowly tilt the machine's mounting plate forward until the attachment mounting frame is free from the machine's mounting plate.

Drive the machine slowly backward, away from the attachment.

5. Operation

5.6 Operating the Attachment

Engaging the Attachment for the First Time if Equipped with the Grapple



If this is the initial startup with this attachment on this machine, check the host machine's hydraulic oil level and add oil, if necessary, before and after doing steps 1 – 2 below.

After starting the machine, lift the attachment 10" (254 mm) off the ground surface:

1. With the machine's engine RPMs just above idle, slowly engage the auxiliary hydraulic to extend the cylinder, which will extend the clamp. Move the auxiliary control pedal, lever, or switch in the opposite direction to retract the cylinder. Repeat this three (3) times to purge any air from the system.
2. Lower the attachment to the ground and shut off the host machine's engine. Leave the operator's position. See "Leaving the Operator's Position" on page 14.
3. Check the machine's hydraulic oil level, and add oil if necessary.
4. Inspect the attachment's hydraulic system for any noticeable leaks. If leaks are present, correct before continuing operation.

Getting Familiar with the Attachment



DANGER



Never operate the cylinder when bystanders are within 10 feet (3 m) of the work area.



CAUTION



Be cautious when operating on uneven ground surfaces. A machine rollover could result in minor or serious injury. Always wear your seatbelt when operating this type of machinery.



WARNING



Never allow riders on the attachment.

Before starting the engine with the Stump Bucket connected to the host machine, make sure the operator is familiar and comfortable with the operation of the auxiliary hydraulic control as outlined in the previous sections of this manual and in the machine's Operator's Manual.

When operating the bucket attachment, set the host machine's throttle at a speed that will produce the required flow to the attachment and other machine functions. If the machine is equipped with a foot throttle, use it to control the engine speed and power being delivered to the attachment. Refer to the machine's Operator's Manual or call your local dealer for additional help if necessary.

To begin with, learn what the attachment looks like in a level position when in the operator's seat.

The correct ground speed for this attachment depends on the application and conditions, which can be monitored by sound and feel, depending on the material density. If the machine's engine is bogging down because of a heavy load, raise or lower the load a little at a time until the machine's power can overcome the material load on the attachment.

5. Operation

5.6 Operating the Attachment Cont'd

Operating the Attachment



WARNING



AVOID SERIOUS INJURY OR DEATH

Use extreme caution when moving debris to keep them from hitting yourself or bystanders.



IMPORTANT



Do not exceed the host machine's rated operating capacity (ROC). See the machine's Operator's Manual for more information.

The Stump Bucket is designed to remove stumps and rocks from the ground and to transport debris from one area to another.

How to Remove a Stump

Remove only stumps with the Stump Bucket. Do not attempt to remove entire trees as the trees can fall over onto the host machine and attachment, risking damage to the equipment as well as the operator.

1. Make sure the stump to be removed does not exceed the lift capacity of the host machine.
2. Position the Stump Bucket perpendicular to the stump and one to two feet away from it.
3. After coming to a complete stop, use the machine's mount to angle the bucket 45 to 75 degrees downwards.

DO NOT ram the Stump Bucket into the stump or the ground.
4. Drive forward while lowering the machine's lift arms to position the bucket's teeth near the ground entry point for breaking through the surface.
5. Continue to lower the machine's lift arms to drive the teeth into the ground until they are below the root so that it can be severed.

6. Use the machine's mount to angle the bucket upwards while lowering the machine's lift arms. Do this while driving forward to move the bucket under the root.
7. Raise the attachment by using the machine's lift arms to sever the root.
8. Repeat steps 2 – 7 to cut and break roots around the entire perimeter of the stump to be removed.

Occasionally poke at the stump with the teeth to see if the stump is loose and ready to be removed from the ground.
9. Once the stump is loose and ready to be removed the ground, place the teeth under one side of the stump and its root ball. Raise the machine's lift arms while slowly driving forward to roll the stump out of the ground.

How to Travel with a Stump

The stump may be picked up and moved if the stump and root ball are small enough to be carried without falling out of the Stump Bucket. When traveling a loaded Stump Bucket, be aware of the following:

- Survey the best route to take when transporting the stump. Look for uneven terrain and obstacles, such as ditches, boulders, other stumps, etc.
- Remove obstacles when possible, and mark those that cannot be removed.
- Never lift a stump high enough to allow it to fall onto the operator or potential bystanders. Go around high obstacles that cannot be moved out of the way.
- After surveying the area and selecting the best route, center the bucket on the stump and drive forward to push the bucket underneath the stump and root ball until they can be picked up. Make sure the stump and root ball are centered and stable in the attachment.

DO NOT carry the stump if it is large, rocks easily, and/or can tip easily.
- Large stumps and root balls should be pushed to the dump site. The bucket is not capable of carrying them safely.

5. Operation

5.6 Operating the Attachment Cont'd

How to Travel with a Stump Cont'd

- Keep the front edge of the bucket slightly tilted back.
- Travel with the load close to the ground if possible.
- When traveling on an incline, keep the load on the uphill side of the host machine, i.e. drive in reverse when going downhill to prevent the material from spilling from the Stump Bucket.
- If the attachment is to be operated on in reverse, make sure visibility to the rear of the host machine is appropriate to the attachment. Maintain cleanliness of lens or mirror.
- When carrying a stump in the bucket, position the bucket level at a safe, low height before moving forward or backward.
- Make sure the host machine, bucket, stump, and root ball will clear all obstacles when in reverse or turning.
- Constantly be vigilant of pedestrians, animals, traffic, and/or obstacles, especially when turning or in reverse. Pedestrians have the right of way.
- Slow down when traveling over rough terrain.
- Do not transport loads on public roads.

How to Release a Stump

1. After traveling with the stump and root ball to the dump site, stop in front of the desired location. Slowly raise the bucket using the host machine's lift arms to the required height for dumping.
2. While maintaining visibility, slowly move forward while making sure all obstacles are cleared by both the attachment and the host machine.
3. Once the bucket is positioned over its desired release location, stop moving forward.
4. To release the load from the bucket, use the machine's mount to tilt the bucket forward.

How to Operate the Grapple (If Equipped)



Never operate the cylinder when bystanders are within 10 feet (3 m) of the work area.

1. Raise the attachment slightly off the ground.
2. To pick up stumps and other debris, fully open the clamp before driving forward. The debris should collect against the back of the attachment.
3. Cycle the cylinder to close the clamp.
4. Use the machine to adjust the height of the attachment. The machine's tilt cylinders can be used to level the attachment.
5. When done handling stumps and other debris, close the grapple to prevent serious injury or death.

5.7 Operating Tips

- Always inspect the work area before starting the job. Locate and mark any utilities, steel posts, rocks, or any objects that could be damaged or cause damage to the attachment during operation. Never assume the work area is safe. Never skip "5.1 Pre-Operation Inspection" on page 12.
- Operate at a safe, slow speed that will allow proper vigilance for the area ahead and behind the machine and attachment. Look behind the attachment/machine and use your mirror when in reverse. Verify that the machine's backup alarm is in proper working condition to warn others when in reverse in addition to proper vigilance.
- Overloading the attachment will result in spinning the tracks or tires and will make unwanted ruts. If a load is lifted that is too heavy with the Stump Bucket, it will raise the rear of the host machine and reduce the tractive power available to move the load.

5. Operation

5.7 Operating Tips Cont'd

- Center the load on the attachment. Estimate the center, and lift the attachment accordingly. If the load feels unbalanced when lifted, stop the host machine, lower the load, and reposition. Try lifting again afterwards. An unbalanced load can overturn the host machine.
- After loading the attachment and closing the clamp onto the load if equipped, roll the attachment back and re-tighten the clamp's pressure. When rolling back the attachment, the load will settle and require some additional clamp pressure to secure the load.
- If equipped, the clamp should not be used for pushing or pulling down trees or any type of structure. The clamp's purpose is to clamp the load so that it provides more control over heavy and irregular debris.
- To avoid service work and downtime, always pay attention so that tree branches or roots do not extend past the attachment's frame and cause damage to any hydraulic parts or enter the cab area.
- Maintain distance from any type of utility, whether underground or overground.
- Always clean the quick couplers before connecting them to the host machine. Use plastic or metal caps to protect the ends or connect them to each other when not in use. Tuck the hoses somewhere in the attachment where they will be kept clean and not driven over.

6. Maintenance

6.1 Service Schedule

DESCRIPTION	SERVICE PROCEDURES					
	Check	Clean	Lube	Change	Adjust	Drain
Daily Maintenance (or every 8 hours)						
Hydraulic Fittings	•					
Hydraulic Hoses	•					
Frame (wear, damage, and loosening)	•	•				
Hydraulic Cylinder	•		•			
Shields & Guards	•					
Attachment Welds	•					
Safety Decals	•					
Pivot Points	•		•			
All Hardware	•					
Bucket	•	•				
Seasonal Maintenance						
Safety Decals	•				•	
Paint	•			•		
All Hardware	•				•	

6. Maintenance

Proper and regular maintenance ensures a long life of the attachment, avoids failures, and saves time and repair costs.

Periodic inspections and maintenance operations described in this section must be performed by an operator in times and terms prescribed. Failure to comply with maintenance prescriptions can compromise the function and lifetime of the attachment, which will result in the warranty becoming void.

Repairs, maintenance, and modifications other than those mentioned in this manual should NOT be performed without consulting Blue Diamond® Product Support.

Wrong or inappropriate repairs or maintenance may generate abnormal operating conditions, equipment damage, and generate risks for the operator.



WARNING



AVOID SERIOUS INJURY OR DEATH

The following must always be performed prior to any adjustment being made:

- Always park on a flat, level surface.
- Lower lift arms, and place attachment flat on the ground.
- Place all controls in **NEUTRAL**.
- Engage the parking brake.
- Stop the engine, and remove the key.
- Wait for all moving parts to stop.

SEE MACHINE'S OPERATOR'S MANUAL FOR ADDITIONAL INFORMATION.

6.2 Maintenance Safety



WARNING



AVOID SERIOUS INJURY OR DEATH

Before operating or servicing the unit:

- Read and understand the machine's Operator's Manual.
- Follow the warnings and instructions in this manual when making repairs, adjustments, or servicing.
- Check for correct function after adjustments, repairs, or service.

UNTRAINED OPERATORS AND FAILURE TO FOLLOW INSTRUCTIONS CAN CAUSE SERIOUS INJURY OR DEATH.

- Always keep the work area clean and dry.
- Always use personal protective equipment (PPE), such as eye, hand, and hearing protection when performing any service or maintenance.
- A fire extinguisher and first aid kit should be readily accessible when performing maintenance on the attachment and machine.
- Before working or doing maintenance, shut off the engine and remove the key. Make sure the host machine's wheels are blocked.
- Never work under the machine or attachment unless the machine or attachment is blocked or securely supported.
- Disconnect the battery (both terminals) before welding any part of the machine. Failure to do so may cause damage to electrical components.
- When working around batteries, remember that all exposed metal parts are "live". Never lay a metal object across the terminals because a spark, short circuit, explosion, or personal injury may result.
- Battery posts, terminals, and related accessories contain lead and lead components. Wash hands after handling.

6. Maintenance

6.2 Maintenance Safety Cont'd

- Always relieve hydraulic system pressure before repairing, adjusting, or disconnecting. Never search for leaks with your hands. See “Hydraulic System” on page 11 for additional information.
- When replacement parts are necessary, genuine factory replacements parts must be used to restore your equipment to original specifications. Blue Diamond® will not be responsible for injuries or damage caused by use of unapproved parts and/or accessories.
- When completing service or maintenance on this attachment, make sure all shields and guards are installed before operating the attachment.

6.3 Daily Maintenance

Inspect the attachment daily before each use. It is also recommended to inspect the Stump Bucket after extreme use or damage. Perform the following:

- Walk around the equipment while following the guidelines laid out in “5.1 Pre–Operation Inspection” on page 12.
- Verify that the proper attachment is being used for the task at hand. Use the Stump Bucket for stump and large debris removal only.



Use on an incompatible host machine could result in damage to the attachment or host machine.

- Verify that the attachment is being used on an appropriate host machine.
- Check that all fasteners (nuts, bolts, pins, etc.) are in their right place and are properly torqued.
- Inspect and replace any worn, torn, or missing safety decals.
- Investigate the location of any oil leaks. Repair if necessary.

- Check the condition of the frame and bucket. Repair if necessary.
- Lubricate all grease points indicated in “6.5 Lubrication” on page 23.



DANGER



AVOID SERIOUS INJURY OR DEATH

Keep all body parts from the clamp and bucket when in use. The clamp may open or close unexpectedly, causing serious injury or death.

NOTE: If the attachment has been in storage or has not been used for an extended period of time, wipe down the chrome portion of the cylinder with hydraulic fluid so to not snag the seals.

6.4 Seasonal Maintenance

Before and after every season, perform the following:

- Inspect the attachment for any loose or worn parts that may need replaced prior to next season.
- Inspect and replace any worn, torn, or missing safety decals.
- Clean and repaint any area that looks worn or scratched to prevent further rusting. Use an equipment paint found at your local hardware store or building center.
- To store your attachment, see “6.9 Storage” on page 24.

6. Maintenance

6.5 Lubrication



IMPORTANT



Fluid, such as 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 correct disposal.

Be sure to lubricate the attachment every eight (8) hours of operation.

The Stump Bucket with Grapple has four (4) grease points:

- Each end of the cylinder – two (2) total
- Each pivot point of the clamp – two (2) total

6.6 Tooth Replacement

The Stump Bucket has three (3) replaceable side pin cast teeth. To replace these teeth, perform the following:

1. Make sure to park on a flat, level surface and that the attachment is securely supported by blocks and not only by the machine's hydraulic system. Engage the parking brake, and turn off the engine.
2. Remove any debris from around the tooth area.
3. Access the retaining pin that is holding the tooth in place by using a pin removal tool or punch.
4. Using a hammer, remove the pin from the tooth and the shank.
5. Once the pin is removed, slide the worn tooth off the shank.
6. Clean the shank using a wire brush, making sure the tooth's retainer aligns with the recess on the shank.
7. Insert the retaining pin through the hole on the tooth and the shank. Make sure they are still aligned.
8. Firmly hammer the pin until it is flush with the tooth to lock the new tooth into place.
9. Repeat until each tooth is replaced.

6.7 Cleaning the Attachment

To maintain safety and quality performance, it is best to clean the Stump Bucket after each use.

To clean the attachment, perform the following:

1. Park the machine and attachment on a flat, level surface. Lower the attachment flat on the ground.
2. Leave the operator's position. See "Leaving the Operator's Position" on page 14.
3. Disconnect the hydraulic hoses from the host machine. See "Disconnecting Hydraulic Hoses" on page 15.
4. Enter the operator's position. See "Entering the Operator's Position" on page 14.
5. Disconnect the attachment from the machine. See "Disconnecting Attachment From the Machine" on page 15.
6. Leave the operator's position. See "Leaving the Operator's Position" on page 14.
7. Use water and air pressure to clean debris from the bucket and mount.

6. Maintenance

6.8 Spare Parts & Accessories

To maintain safety, performance, and product reliability, Blue Diamond® recommends the use of genuine Blue Diamond® replacement parts for all repairs and service.

Genuine Blue Diamond® parts are specifically designed and tested for your attachment. These components include critical items, such as hydraulic motors, cylinders, and structural weldments.

Use of non-genuine parts for components identified as Blue Diamond® OEM may affect product performance and could void applicable warranty coverage.

To obtain replacement parts, contact Blue Diamond® Product Support with the following information:

- Type of attachment
- Serial number
- Part number and/or description of part(s) needed
- Quantity of part(s) needed

6.9 Storage

Storing the Attachment

Sometimes it may be necessary to store your Stump Bucket for an extended period of time. Below is a list of items to perform before storage.

- Make sure the hydraulic hose couplers are capped, plugged, or connected to each other.
- Thoroughly wash the attachment before storing it for long periods.
- Lubricate the attachment.
- Coat the exposed portion of the cylinder with oil.
- Check for loose hardware, missing guards, or damaged parts.
- Check for damaged or missing decals. Replace if necessary.
- Replace worn or damaged parts.
- Place the attachment flat on the ground in a dry, protected shelter.

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

Return to Service

After the Stump Bucket has been in storage, it is necessary to follow a list of items to return the attachment to service.

- Lubricate the attachment.
- Clean the exposed portion of the cylinder rod and apply a light coating of oil.
- Connect and operate the attachment and check for correct function.
- Check for leaks. Repair as needed.

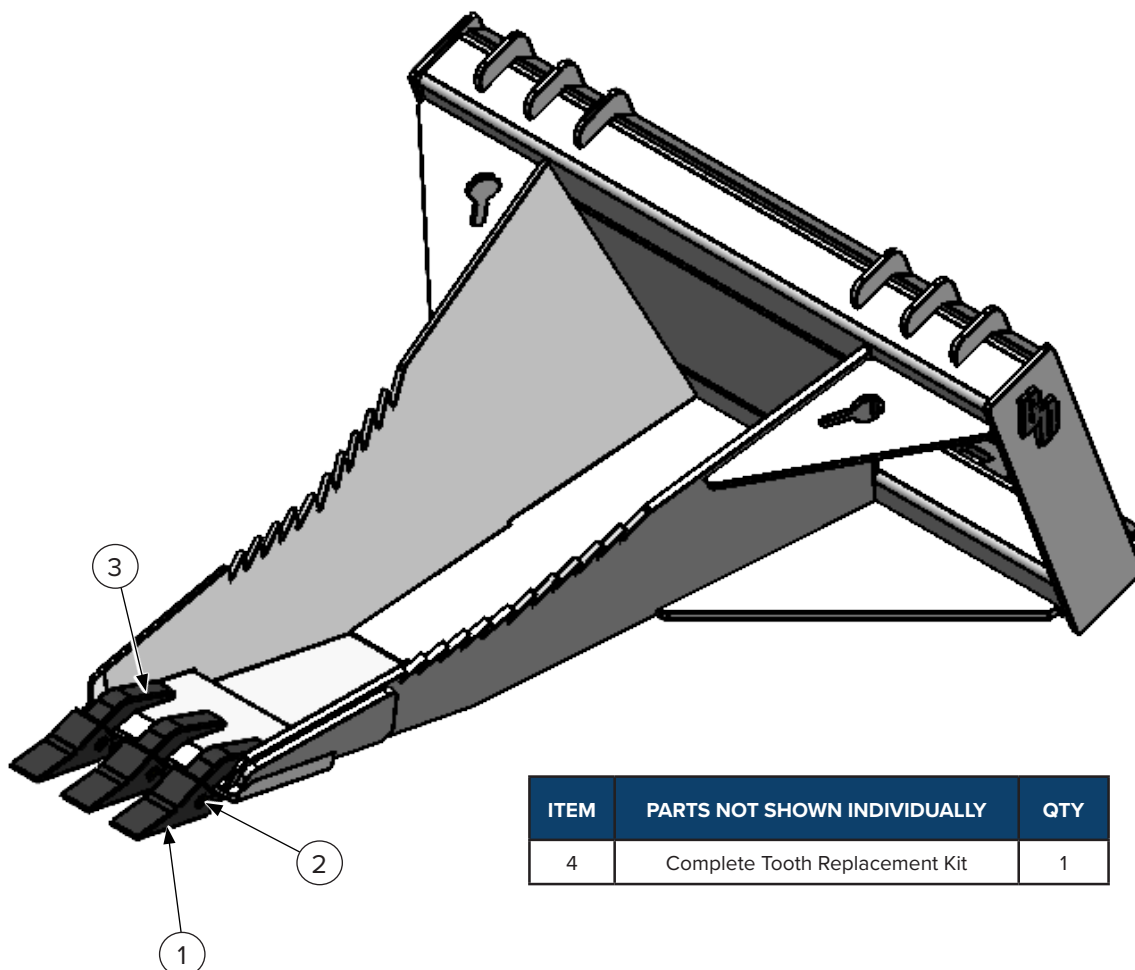
6. Maintenance

6.10 Troubleshooting

PROBLEM	CAUSE	SOLUTION
Hydraulic oil level goes down during operation.	Leak at hoses on the attachment	Investigate and repair.
	Leak in the prime mover hydraulic system	Investigate and repair.
Clamp does not open or close.	Quick disconnects not connected	Check and recouple quick disconnects.
	Hoses damaged	Check for a smashed or kinked hose. Replace if found.
	Skid steer auxiliary circuit inoperative	Investigate and repair.
Clamp moves abnormally slow.	Restricted hose	Check for damaged hose between host machine and cylinder. If damaged, replace the hose.
	Bad circuit relief on host machine	Investigate and repair.
	Auxiliary valve spool on host machine not shifting properly	Investigate and repair.
	Cylinder seals bypassing	Have cylinder repacked or replaced.
Excess play or wobble when the clamp is fully extended.	Worn pivot pins	Replace worn pivot pins.
Grinding noise occurs when extending or retracting the clamp.	Lack of grease	Investigate cylinder. If in good condition, grease the cylinder. If not in good condition, replace cylinder.
	Dirt and debris in cylinder area	Remove dirt and debris from cylinder area.
Teeth keep breaking.	Using bucket attachment as a pry bar	Distribute the load across all three (3) teeth and pull only to break all the roots first. Do not try to pry the stump from the ground while all roots are still intact.
Bucket is bent.	Using bucket attachment as pry bar	Be sure to break all the roots before trying to remove the stump. Do not try to pry the stump from the ground while all roots are still intact.
	Load not centered when trying to remove stump/root ball	Center the stump/root ball before trying to remove it from the ground.
	Excessive downpressure	Stay within rated horsepower and lift capacity.
		Lift the Stump Bucket when traveling.

7. Parts

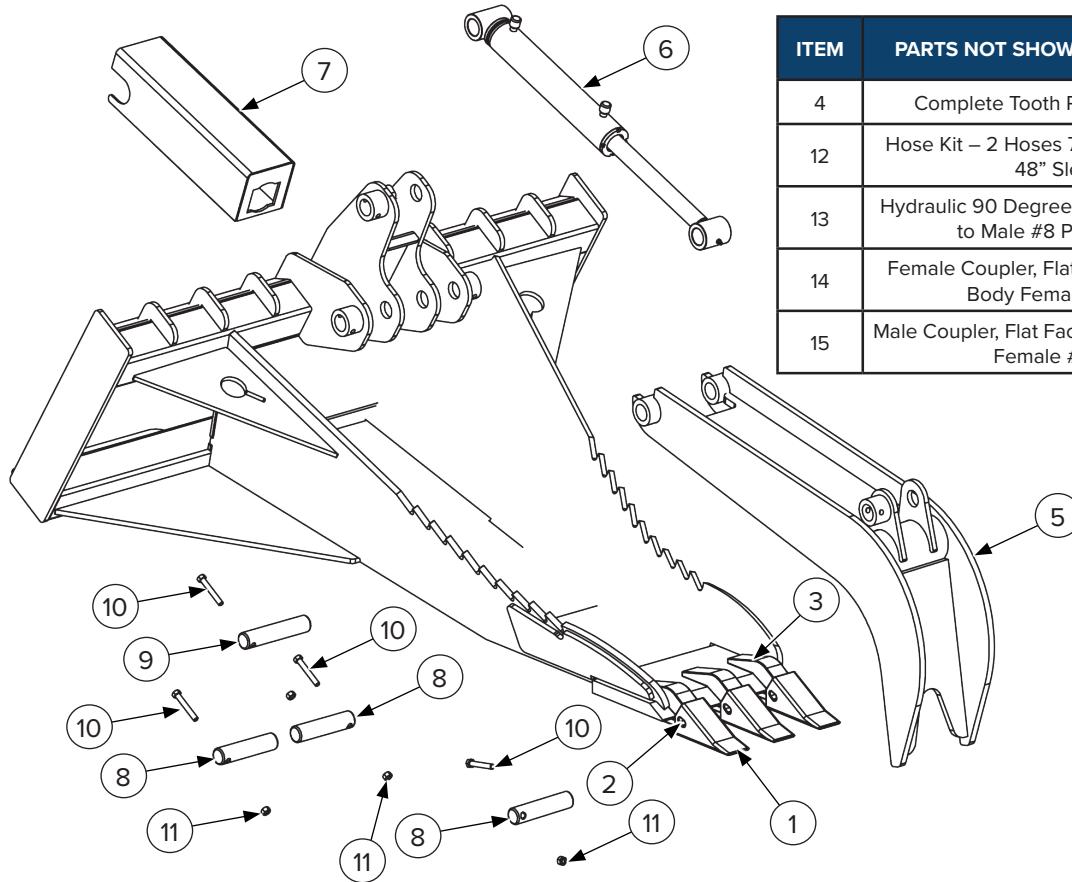
7.1 Main Components – No Grapple



ITEM	PART NUMBER	DESCRIPTION	QTY
1	210005	Side Pin Tooth	3
	202015	Top Pin Tooth (Fits Older Units)	
2	210006	Retainer Pin for Side Pin Tooth	3
	202010	Retainer Pin for Top Pin Tooth (Fits Older Units)	
3	210050	Tooth Shank for Side Pin Tooth	3
	202017	Tooth Shank for Top Pin Tooth (Fits Older Units)	
4	210005-KIT-3	Complete Tooth Replacement Kit (Includes Side Pin Teeth & Retainer Pins)	1

7. Parts

7.2 Grapple Components

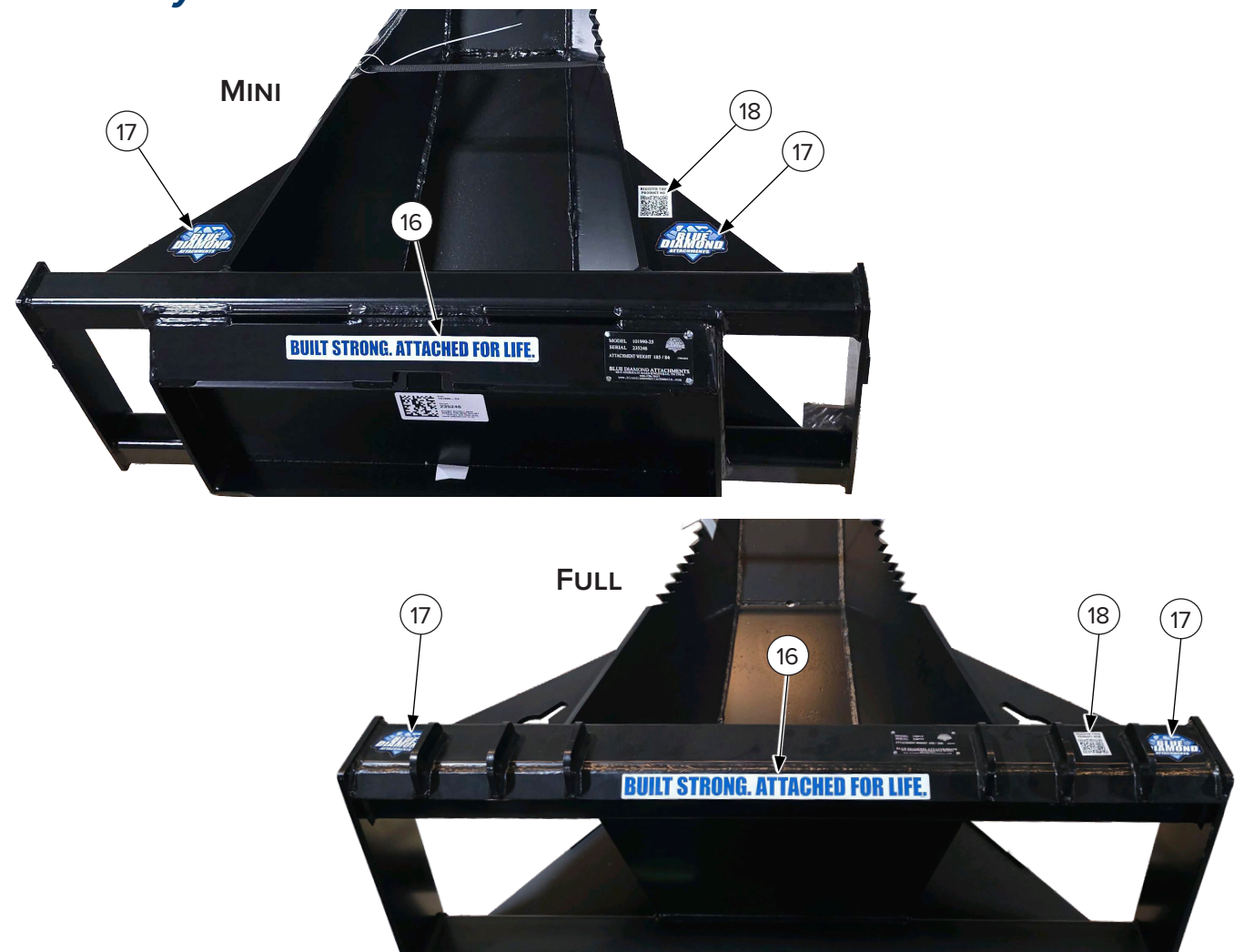


ITEM	PARTS NOT SHOWN INDIVIDUALLY	QTY
4	Complete Tooth Replacement Kit	1
12	Hose Kit – 2 Hoses 74" & 82" OAL with 48" Sleeve	1
13	Hydraulic 90 Degree Fitting Male #6 JIC to Male #8 Pipe Thread	2
14	Female Coupler, Flat Face Straight 1/2" Body Female #8 NPT	1
15	Male Coupler, Flat Face Straight 1/2" Body Female #8 NPT	1

ITEM	PART NUMBER	DESCRIPTION	QTY
1	210005	Side Pin Tooth	3
	202015	Top Pin Tooth (Fits Older Units)	
2	210006	Retainer Pin for Side Pin Tooth	3
	202010	Retainer Pin for Top Pin Tooth (Fits Older Units)	
3	210050	Tooth Shank for Side Pin Tooth	3
	202017	Tooth Shank for Top Pin Tooth (Fits Older Units)	
4	210005-KIT-3	Complete Tooth Replacement Kit (Includes Side Pin Teeth & Retainer Pins)	1
5	—	Stump Bucket Clamp	1
6	206305	Cylinder – 2" Bore x 10" Stroke with 1/4" Ports	1
7	206315	Cylinder Cover	1
8	206343	5 1/4" Long x 1 1/4" Diameter Pivot Pin	3
9	206342	6" Long x 1/4" Diameter Rear Pin	1
10	299329	3/8"–16 x 2 1/2" Hex Head Bolt Grade 8	4
11	299625	3/8"–16 Hex Nylock Nut Grade 8	4
12	206012	Hose Kit – 2 Hoses 74" & 82" OAL with 48" Sleeve	1
13	295030-M06JIC-M08NPT	Hydraulic 90 Degree Fitting Male #6 JIC to Male #8 Pipe Thread	2
14	224005	Female Coupler, Flat Face Straight 1/2" Body Female #8 NPT	1
15	224006	Male Coupler, Flat Face Straight 1/2" Body Female #8 NPT	1

7. Parts

7.3 Safety Decals



BUILT STRONG. ATTACHED FOR LIFE.

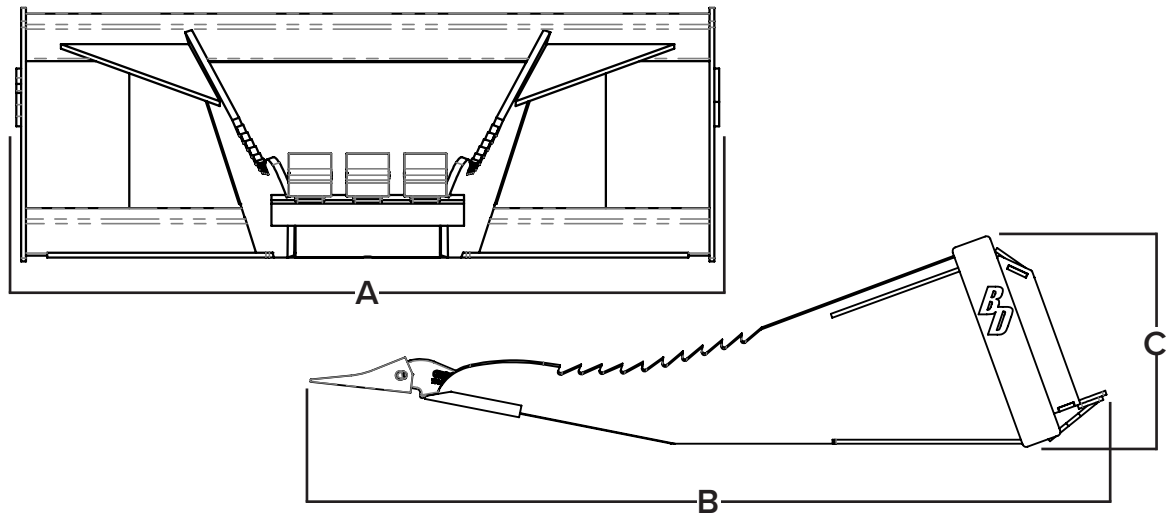
BD-133



ITEM	PART NUMBER	DESCRIPTION	QTY
16	BD-133	1" Tall Decal, Tag Line Single Line for Mini	1
	BD-134	2" Tall Decal, Tag Line Single Line for Full Size	
17	BD-060	2.4375" x 3.375" Decal, Blue Diamond Attachments	2
18	BD-092	1.5" x 2.0" Decal, Warranty Registration QR	1

8. Specifications

8.1 Attachment Specifications for Mini Stump Bucket

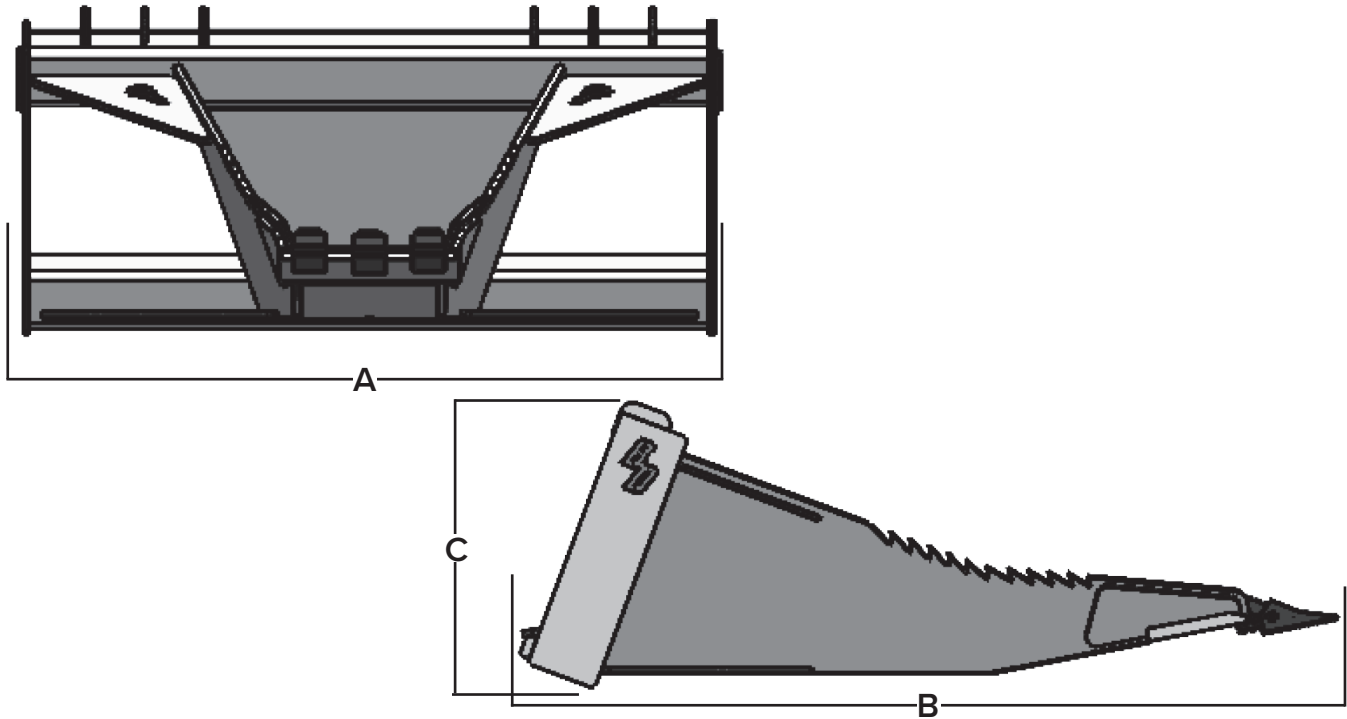


DESCRIPTION	101990
Width (A)	36 in. (914 mm)
Length (B)	49 3/4 in. (1,263 mm)
Height (C) (includes teeth)	13 1/4 in. (336 mm)
Number of Teeth	3
Cutting Edge	1/2 in. Thick x 6 in. Wide (12 mm x 152 mm)
Side Thickness	1/4 in. (6 mm)
Maximum Horsepower	45 HP
Weight*	185 lbs (84 kg)

*Weight can vary, depending on the mount.

8. Specifications

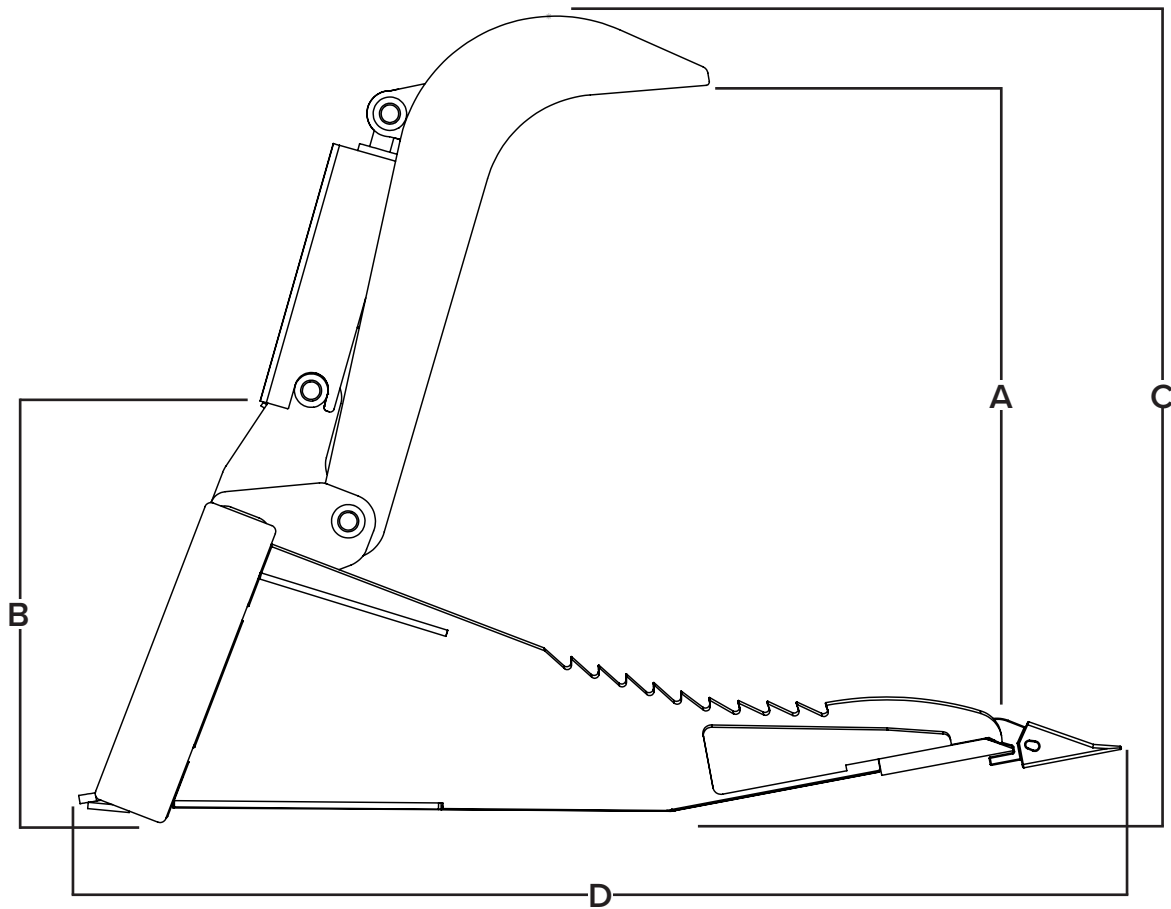
8.2 Attachment Specifications for Full Size Stump Bucket



DESCRIPTION	102015
Width (A)	45 3/4 in. (1,162 mm)
Length (B)	62 1/2 in. (1,587 mm)
Height (C) (includes teeth)	18 in. (457 mm)
Number of Teeth	3
Cutting Edge	1 in. Thick x 8 in. Wide (25 mm x 203 mm)
Side Thickness	1/2 in. (12 mm)
Bottom Plate Thickness	1/2 in. (12 mm)
Maximum Horsepower	120 HP
Weight	440 lbs (200 kg)

8. Specifications

8.3 Attachment Specifications for Stump Bucket with Grapple



DESCRIPTION	102006
Width	45 3/4 in. (1,162 mm)
Opening Height (A)	42 in. (1,066 mm)
Overall Height with Closed Clamp (B)	28 in. (711 mm)
Overall Height with Open Clamp (C)	47 1/2 in. (1,206 mm)
Length (D)	62 1/2 in. (1,587 mm)
Required Hydraulic Flow (GPM)	8 – 26 GPM (30 – 98 L/min)
Number of Teeth	3
Cutting Edge	1 in. Thick x 8 in. Wide (25 mm x 203 mm)
Side Thickness	1/2 in. (12 mm)
Bottom Plate Thickness	1/2 in. (12 mm)
Maximum Horsepower	120 HP
Maximum Pressure	3,200 psi (220 bar)
Weight	475 lbs (215 kg)

8. Specifications

8.4 Torque Specifications – Imperial

Standard Hardware and Lock Nuts

BOLT TYPE	SAE GRADE 5		SAE GRADE 8		LOCK NUTS			
Nominal Size	Plated or Unplated Silver	Plated W/ ZnCr Gold	Plated or Unplated Silver	Plated W/ ZnCr Gold	Plated or Unplated Silver	Plated W/ ZnCr Gold	W/ Grade 5 Bolt	W/ Grade 8 Bolt
1/4	4.6 lbf•ft	6.0 lbf•ft	7.2 lbf•ft	9.3 lbf•ft	10.0 lbf•ft	13.1 lbf•ft	5.1 lbf•ft	7.2 lbf•ft
	6.2 N•m	8.1 N•m	9.7 N•m	12.6 N•m	13.6 N•m	17.7 N•m	6.9 N•m	9.8 N•m
5/16	9.6 lbf•ft	12.5 lbf•ft	14.8 lbf•ft	19.2 lbf•ft	20.7 lbf•ft	27.3 lbf•ft	10.3 lbf•ft	14.8 lbf•ft
	13 N•m	17 N•m	20 N•m	26 N•m	28 N•m	37 N•m	14 N•m	20 N•m
3/8	17 lbf•ft	22 lbf•ft	26 lbf•ft	34 lbf•ft	37 lbf•ft	48 lbf•ft	19 lbf•ft	26 lbf•ft
	23 N•m	30 N•m	35 N•m	46 N•m	50 N•m	65 N•m	26 N•m	35 N•m
7/16	27 lbf•ft	35 lbf•ft	42 lbf•ft	54 lbf•ft	59 lbf•ft	77 lbf•ft	30 lbf•ft	42 lbf•ft
	37 N•m	47 N•m	57 N•m	73 N•m	80 N•m	104 N•m	41 N•m	57 N•m
1/2	42 lbf•ft	54 lbf•ft	64 lbf•ft	83 lbf•ft	91 lbf•ft	117 lbf•ft	45 lbf•ft	65 lbf•ft
	57 N•m	73 N•m	87 N•m	113 N•m	123 N•m	159 N•m	61 N•m	88 N•m
9/16	60 lbf•ft	77 lbf•ft	92 lbf•ft	120 lbf•ft	130 lbf•ft	169 lbf•ft	65 lbf•ft	92 lbf•ft
	81 N•m	104 N•m	125 N•m	163 N•m	176 N•m	229 N•m	88 N•m	125 N•m
5/8	83 lbf•ft	107 lbf•ft	128 lbf•ft	165 lbf•ft	180 lbf•ft	233 lbf•ft	90 lbf•ft	127 lbf•ft
	112 N•m	145 N•m	174 N•m	224 N•m	244 N•m	316 N•m	122 N•m	172 N•m
3/4	146 lbf•ft	189 lbf•ft	226 lbf•ft	293 lbf•ft	319 lbf•ft	413 lbf•ft	160 lbf•ft	226 lbf•ft
	198 N•m	256 N•m	306 N•m	397 N•m	432 N•m	560 N•m	217 N•m	306 N•m
7/8	142 lbf•ft	183 lbf•ft	365 lbf•ft	473 lbf•ft	515 lbf•ft	667 lbf•ft	258 lbf•ft	364 lbf•ft
	193 N•m	248 N•m	495 N•m	641 N•m	698 N•m	904 N•m	350 N•m	494 N•m
1	213 lbf•ft	275 lbf•ft	547 lbf•ft	708 lbf•ft	773 lbf•ft	1000 lbf•ft	386 lbf•ft	545 lbf•ft
	289 N•m	373 N•m	742 N•m	960 N•m	1048 N•m	1356 N•m	523 N•m	739 N•m

**This page intentionally
left blank**



Warranty Policies

OUR WARRANTY PROMISE

At Blue Diamond® Attachments, we stand by our products. Our warranty ensures you can depend on our attachments for your toughest jobs. We are committed to your satisfaction and peace of mind, offering reliable support for continued productivity.

MANUFACTURER'S LIMITED WARRANTY

BLUE DIAMOND® ATTACHMENTS, LLC ("BDA"), a manufacturer of quality attachments, warrants new BDA products and/or attachments at the time of delivery to the original purchaser, to be free from the defects in material and workmanship when properly set up and operated in accordance with the recommendations set forth by BDA.

BDA's liability for any defect with respect to accepted goods shall be limited to repairing the goods at a BDA designated location or at an authorized dealer location, or replacing them, as BDA shall elect. The above shall be in accordance with BDA warranty adjustment policies.

WARRANTY TERM

BDA's warranty obligation is subject to the following terms, whichever occurs first:

- The warranty terminates twelve (12) months after the date of delivery of the attachment from the dealer to the end user (original purchaser); or
- The warranty terminates thirty-six (36) months after the date of BDA's invoice to the dealer, regardless of whether the attachment has been sold to an end user.

For the purposes of this warranty, "delivery" means the date on which the authorized dealer delivers the attachment to the end user.

WARRANTY ELIGIBILITY AND REGISTRATION

BDA warrants its products to the original purchaser only. Warranty coverage is not transferable.

Product registration is strongly encouraged and assists BDA in processing warranty claims efficiently. Registration may be completed at any time prior to filing a warranty claim at bluediamondattachments.com/warranty-registration. If registration has not been completed at the time a claim is filed, BDA may request a valid bill of sale or other proof of original purchase to verify eligibility.

This warranty shall not apply to any machine or attachment which has been repaired or altered in any way outside the BDA factory or an authorized BDA dealership in any way so as to, in BDA's judgment, affect its stability or reliability, nor which has been subject to misuse, negligence, or accident beyond the company-recommended machine rated capacity.

USED AND SECONDARY MARKET EQUIPMENT

Attachments sold through used equipment channels, dealer-to-dealer transactions, auctions, or any source other than the original authorized sale to an end user do not carry BDA warranty coverage unless BDA has explicitly granted warranty coverage for that specific attachment by serial number in writing. No implied warranty coverage applies to used or secondary market purchases.



Warranty Policies Cont'd

HOW TO SUBMIT A WARRANTY CLAIM

At Blue Diamond® Attachments, streamlining your warranty claim is a priority. Contact the Product Support Team at the first sign of equipment issues for efficient management of your claim.

SUBMITTING A WARRANTY CLAIM ONLINE

To file a warranty claim, complete the online form at www.bluediamondattachments.com/warranty-claim. Before starting, gather the information below to ensure your claim can be processed without delay:

- Contact and shipping information, including your name, company, phone, email, and billing and shipping addresses.
- Attachment details, including the model number, attachment type, attachment name, and serial number.
- Purchase information, including the purchase invoice date, invoice number, and the name and city of the selling dealer.
- Failure information, including the failure date, the host machine make and model, and a description of the issue.
- Photos of the failure, including detailed images of the failed component and overall images showing the condition of the attachment.

When completing the form, provide a clear response in each of the following fields:

- Complaint, describing what is not functioning correctly.
- Cause, describing what you believe led to the failure.
- Correction, describing any corrective action taken or proposed.
- Key Part, providing the part number of the components that caused the failure.

Upload all supporting photos, accept the warranty policies, and click Submit. A member of the BDA Product Support Team will follow up to advise on next steps. Do not perform any repairs or disassembly until your claim has been reviewed and approved by BDA.

GENERAL CLAIM TERMS

A claim must be filed with BDA and approved before any work is performed.

BDA will advise on repairs and applicable parts exchanges.

Submit detailed photos of the issue and images of overall condition of the attachment to warranty@bdattachments.com. Photos are required for processing.

Tampering with the failed part may void the warranty.

This warranty does not include freight or delivery charges incurred when returning machinery for servicing. Dealer mileage, service calls, and pickup and delivery charges are the customer's responsibility and will not be paid by BDA.

BDA covers standard Less-Than-Truckload (LTL) freight and UPS ground shipping on warranty parts and attachments sent from the factory to the dealer or end user. Next Day Air (NDA) or any other special freight services are not covered under warranty but can be arranged at the dealer and/or end user's expense.

Labor, where covered, is typically credited to your account at \$105 per hour. When more than four (4) hours are needed for repair, BDA requires an estimate before work is performed.

Coverage of travel time, host machine service and repairs, diagnostics, and business downtime are neither expressed or implied.



Warranty Policies Cont'd

EXCLUSIONS OF WARRANTY

Except as otherwise expressly stated herein, BDA makes no representation or warranty of any kind, expressed or implied, AND MAKES NO WARRANTY OF MERCHANTABILITY IN RESPECT TO ITS MACHINERY AND/OR ATTACHMENTS OR THAT THEY ARE FIT FOR ANY PARTICULAR PURPOSE.

BDA shall not be liable for incidental or consequential damages for any breach of warranty, including but not limited to inconvenience, rental of replacement equipment, loss of profits, or other commercial loss. Upon purchase, the buyer assumes all liability for personal injury and property damage resulting from handling, possession, or use of goods by the buyer.

No agent, employee, or representative of BDA has any authority to bind BDA to any affirmation, representation, or warranty concerning its machinery and/or attachments except as specifically set forth herein.

PLEASE NOTE: Replacing genuine OEM parts with aftermarket parts may void the warranty.

HOSES, COUPLERS, HOSE ROUTING, AND CONNECTIONS

BDA supplies attachments with hoses that are universal in length, but hose configuration may vary by machine manufacturer. BDA cannot guarantee that the hose length will be correct on every machine or for every routing.

It is the responsibility of the end user to adjust hose length to fit their specific machine and to ensure that hose routing does not result in hoses becoming tangled, caught, pinched, crushed, or run over during operation.

- It is the end user's responsibility to ensure that hose routing clears pinch points and allows the attachment to move properly.
- BDA will not cover hose or coupler damage due to poor hose routing. Hose extenders and hose keeps are available at additional cost.

BDA supplies most attachments with standard size quick couplers; some attachments may have couplers sold separately. Coupler configuration varies by machine manufacturer, and BDA cannot guarantee that the standard coupler will be correct for every application. Coupler changes can be made before the attachment leaves the BDA facility if noted on the sales order. BDA is not responsible for coupler compatibility after the attachment has left the facility unless a specific configuration was requested at the time of order.

HYDRAULIC MOTORS

Do not disassemble any hydraulic motor. Disassembly of the motor voids the warranty.

BDA products equipped with hydraulic motors or gearbox assemblies carry a one (1) year warranty on parts and labor. A warranty claim must be submitted and reviewed by an authorized BDA representative before any action is taken.

Under no circumstances should a hydraulic motor or gearbox be disassembled by the customer. Disassembled units cannot be returned to the original manufacturer and will void the warranty. BDA will replace motors or gearboxes found to be defective under warranty. There are no user-serviceable internal parts in these components while under warranty.

CYLINDERS

Defective cylinders are covered for one (1) year. Disassembly of the cylinder will void the cylinder warranty. In any event of cylinder issue or failure, submit a warranty claim prior to disassembly or repair. Cylinders under warranty are exchanged if found to be defective. For a cylinder claim to be granted, the defective cylinder must be returned to BDA.



Warranty Policies Cont'd

FREIGHT DAMAGE AND CONCEALED FREIGHT DAMAGE

Blue Diamond® Attachments, LLC ("BDA") is not responsible for damage that occurs during shipment once the product has been released to the carrier. It is the responsibility of the receiving dealer or end user ("Receiver") to inspect all shipments immediately upon delivery, regardless of shipping method, including small package carriers (e.g. UPS, FedEx) and Less-Than-Truckload (LTL) freight.

VISIBLE FREIGHT DAMAGE

All shipments must be inspected at the time of delivery prior to signing the Bill of Lading (BOL) or delivery receipt. Any visible damage, shortage, or indication of mishandling must be clearly noted on the BOL or delivery receipt at the time of delivery and acknowledged by the carrier. The Receiver must retain a copy of the signed BOL with damage notation and submit clear photographic evidence of the damage and packing to BDA.

If the BOL or delivery receipt is signed without notation of damage or shortage, the shipment will be deemed received in good condition. No freight damage claim may be made in such cases, and responsibility for any damage rests solely with the Receiver.

CONCEALED FREIGHT DAMAGE

Concealed damage is damage that is not reasonably apparent at the time of delivery and is discovered only after unpacking. The Receiver must notify BDA of any concealed damage within five (5) business days of receipt. Notification must include written notice and clear photographic documentation of the damage and all original packaging materials.

Failure to notify BDA and provide required documentation within five (5) business days will result in the concealed damage being deemed the responsibility of the Receiver, and BDA will have no obligation or liability for such damage.

GENERAL CONDITIONS

- All original packaging must be retained until any freight damage claim is resolved.
- BDA reserves the right to request additional documentation or inspection as required by the carrier.
- Freight damage claims are separate from and not covered under BDA's product warranty.
- BDA's determination regarding freight damage claims shall be final.

WARRANTY MAY BE VOIDED IF ATTACHMENT IS ALTERED IN ANY WAY.

This warranty policy supersedes any previous documents.

For the most current information, visit bluediamondattachments.com/warranty-policies.

NOTE: Blue Diamond® Attachments is a trademark of BLUE DIAMOND® ATTACHMENTS, LLC.



QUALITY | DEPENDABILITY | INTEGRITY

Blue Diamond® Attachments
4512 Anderson Road, Knoxville, TN 37918
888-376-7027