

Low Profile Severe Duty Buckets

Operation and Maintenance Manual



INCLUDES LONG BOTTOM



888-376-7027 | BlueDiamondAttachments.com

Register your
WARRANTY
within 30 days
of purchase



Introduction: Owner Information

Thank you for your decision to purchase a Blue Diamond® Severe Duty Low Profile 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 rear to the right of the mount plate 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.

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1. Pre-Delivery Inspection Instructions

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, chipped paint, etc.
- ☐ Fasteners are properly torqued (if applicable).

1.3 Final Delivery

- ☐ Maintenance schedule located in Operation and Maintenance Manual has been reviewed.
- ☐ Grease type and intervals were provided.
- ☐ Bolt-on edge and/or tooth bar change procedure and maintenance safety have been explained.
- ☐ Register the attachment for warranty by following the instructions below:
 - ☐ Scan the QR code to fill out the form online.
 - ☐ Fill out this form and email it to warranty@battachments.com

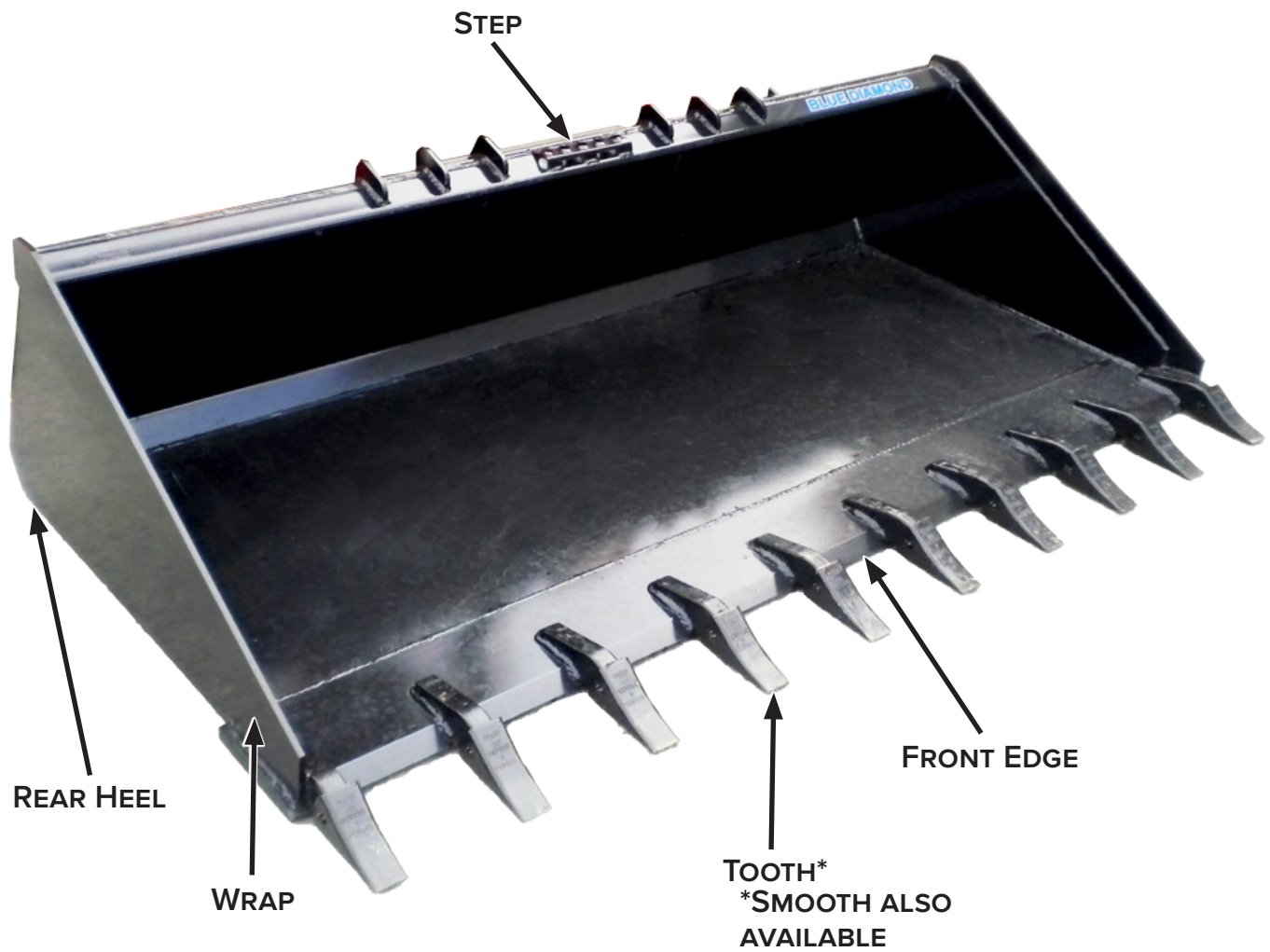
TECHNICIAN: _____

CUSTOMER: _____

DATE: _____

2. Introduction

2.1 Attachment Identification



2. Introduction – Low Profile Severe

2.2 About this Attachment

The Blue Diamond® Severe Duty Low Profile Bucket is among the heaviest duty skid steer buckets on the market. It is constructed from heavy gauge steel consisting of a 1/2" bottom, double-layer 1/4" back, and a 1" x 8" cutting blade.

2.3 Attachment Model Numbers

Severe Duty

MODEL NUMBER	WIDTH	EDGE	STRUCK CAPACITY
108260	66"	Smooth	10.4 ft. ³
108263	66"	Tooth	10.4 ft. ³
108270	72"	Smooth	11 ft. ³
108273	72"	Tooth	11 ft. ³
108275	78"	Smooth	12 ft. ³
108277	78"	Tooth	12 ft. ³
108280	84"	Smooth	12.9 ft. ³
108282	84"	Tooth	12.9 ft. ³

Long Bottom

MODEL NUMBER	WIDTH	EDGE	STRUCK CAPACITY
108284	72"	Smooth	15.2 ft. ³
108285	72"	Tooth	15.2 ft. ³
108286	78"	Smooth	16.5 ft. ³
108287	78"	Tooth	16.5 ft. ³
108290	84"	Smooth	17.7 ft. ³
108293	84"	Tooth	17.7 ft. ³

3. Safety

3.1 General Safety Information



SAFETY ALERT SYMBOL



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.



IMPORTANT



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



DANGER



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.



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.



CAUTION



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 Severe Duty Low Profile 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 Severe Duty Low Profile 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 attachment. 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 attachment, 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
- If the use of the attachment 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.

3. Safety

3.2 Operators

Qualified Operators

The operator is a person suited to the work and who 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 and/or attachment while it is working and must not allow external personnel to operate the machine and/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 attachment 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; bystanders coming in contact with the machine/attachment while it is in motion creates risks of serious injury or death.
- 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.

3. Safety

3.3 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 attachment is in motion.
- 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 less than 300 feet (100 m) in front of and to the sides of the equipment.
- 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

- Keep bystanders clear of moving parts and the work area. Keep children away.
- The prime mover must be in good working condition before operating.
- The prime mover must have adequate horsepower and lift capacity to provide satisfactory results. See "7. Specifications" on page 22 for more information.
- Use caution on slopes and near banks and ditches to prevent overturn.

3. Safety

3.3 Safety Guidelines Cont'd

Fire Prevention Safety

- 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.

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.

4. Operation

4.1 Pre–Operation Inspection

Before operating the Severe Duty Low Profile 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.
 - 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.
 - Inspect the bolt-on edge or teeth for damage. Replace if necessary.

- 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.

4.2 Entering & Exiting the Prime Mover



IMPORTANT



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

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.

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

Leaving the Operator's Position



WARNING



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.

4. Operation

4.2 Entering & Exiting the Prime Mover Cont'd

Leaving the Operator's Position Cont'd

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.

4.3 Attachment Installation

Connecting Attachment to the Machine



WARNING



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 connection.
- 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 11.

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.)



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.

Disconnecting Attachment From the Machine

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 Cont'd" on page 12.

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 11.

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.

4. Operation

4.4 Operating the Attachment

Machine Requirements



WARNING



AVOID SERIOUS INJURY OR DEATH

Never allow riders on the attachment.

Refer to the machine's Operator's Manual for adequate lift capacity and horsepower.

Refer to the machine's Operator's Manual for instructions on the lift and tilt functions of the machine's arms.

Be sure to follow all potential machine limitations stated in "7. Specifications" on page 22. If the attachment is operated using an improper host machine, this could result in damage that will not be covered by the warranty.



IMPORTANT



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

How to Dig

The Severe Duty Low Profile Bucket can be used for digging into the ground or piles of soil, rocks, sand, and other material.

Using the host machine's controls, move the host machine/attachment to the center of the material to be picked up.

Come to a complete stop in front of the material to be picked up and position the bucket at the proper height. Do not ram the attachment into the material desired to be worked.

Into the Ground

1. Lower the machine's arms until the bucket is placed on the ground.
2. Tilt the front of the bucket down until the bolt-on edge or teeth are on the ground.
3. Slowly drive forward while continuing to tilt the front of the bucket downwards until the front edge begins to dig.
4. Once the bucket has begun to dig, tilt the front edge up slightly to increase the host machine's traction and to create an even digging depth.
5. When the bucket is filled, stop digging. Raise the bucket while tilting the front edge back to keep the material inside.
6. While being vigilant of potential obstacles, turn or reverse the host machine.
7. Position the loaded bucket at a safe, low height with the front edge still tilted backward.
8. Transport the load to the dump site.

NOTE: The tooth edge option is best used for when digging into hard ground.

Into a Pile

1. Lower the machine's arms until the bucket is placed on the ground.
2. Tilt the front of the bucket down until the bolt-on edge or teeth are on the ground.
3. Slowly drive forward into the pile.
4. Once the bucket is almost filled to capacity, stop and raise the attachment out of the pile while tilting the front edge of the bucket backwards to keep the material inside.
5. While being vigilant of potential obstacles, turn or reverse the host machine.
6. Position the loaded bucket at a safe, low height with the front edge still tilted backward.
7. Transport the load to the dump site.

4. Operation

4.4 Operating the Attachment Cont'd

How to Travel with a Load

When traveling with a bucket full of material, be aware of the following:

- Pedestrians have the right of way.
- Keep the front edge of the bucket slightly tilted back.
- Travel with the load close to the ground if possible.
- Constantly be vigilant of bystanders, animals, obstacles, etc. in your path, especially when turning.
- Always drive at a safe speed and slow down when going around curves or when turning. Do not brake suddenly 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 material from spilling from the XX Bucket.
- When possible, travel perpendicular to slopes, ramps, inclines, etc.
- Slow down when traveling over rough terrain.
- Do not transport loads on public roads.
- Plan the best route before traveling with a loaded bucket.

How to Release a Load

1. After traveling with a load to the dump site, stop in front of the desired location. Slowly raise the bucket 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 release location, stop moving forward.
4. To release the load from the bucket, slowly tilt the front edge of the bucket until all material is expelled from the bucket and is now piled onto the dump site.

5. After the load has been completely released, tilt the front edge of the bucket back until it is level.
6. Slow reverse the host machine, avoiding obstacles, bystanders, etc.
7. When clear of the pile, stop and lower the bucket until it is close to the ground, readying it for transport before moving again.

How to Level

The XX Bucket can be used to level the ground. Buckets equipped with a smooth front edge provide the best results.

1. Before beginning operation, remove large rocks, debris, vegetation, and other material from the work site.
2. Enter the operator's position (see "Entering the Operator's Position" on page 11).
3. Tilt the front edge of the bucket slightly forward.
4. Slowly move the host machine over the desired area. The front edge should be cutting into the high parts of the ground, and the material being cut from the high points should be filling in the low spots.

How to Backdrag

Using the rear heel of the Severe Duty Low Profile Bucket will provide a finer finish when it comes to leveling the work site.

1. After using the front edge of the bucket to level the bucket, tilt the front edge of the bucket upwards until it is level.
2. Lower the machine's lift arms until the bucket is flat and level on the ground.
NOTE: Some host machines are equipped with a "float" function, which allows the attachment to rest on the surface without applying down pressure. This mode can be engaged if preferred by the operator.
3. Move the host machine in reverse with the rear heel of the bucket dragging, further smoothing the ground surface.

4. Operation

4.5 Operating Tips

- At the start, learn what the bucket looks like in a level position when in the operator's position.
- Always inspect the work area before using the attachment. Locate and mark any utilities, steel posts, rocks, or any other objects that could be damaged or would damage the attachment during operation.
- Operate at a safe, slow speed that will allow the operator to observe the area surrounding the attachment and host machine.
- Avoid overloading the XXX Bucket.
- Save time by performing "skid" turns going forward instead of reversing when possible.
- Reduce the number of trips by filling the Severe Duty Low Profile Bucket to its rated capacity.
- Keep the loaded bucket low to the ground with the front edge tilted slightly upwards for visibility.
- When leveling:
 - Do not use excessive down pressure as it will create more unevenness.
 - Work in smaller, overlapping sections to ensure the entire area is covered.
 - Use the tracks of the host machine to drive over and compact the newly leveled area.
 - Keep a slow, steady speed to avoid waves.

5. Maintenance

5.1 Service Schedule

DESCRIPTION	SERVICE PROCEDURES					
	Check	Clean	Lube	Change	Adjust	Drain
Daily Maintenance (or every 8 hours)						
All Hardware	•					
Bucket	•	•				
Safety Decals	•					
Weekly Maintenance (or every 40 hours)						
Bolt–On Edge or Teeth (if equipped)	•					
Mount Frame (cracks, bends, or damage)	•					
Seasonal Maintenance						
Bolt–On Edge or Tooth Bar (if equipped)	•			•		
All Hardware	•				•	
Paint	•			•		
Safety Decals	•			•		

5. 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.
- Set the parking stand.

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

5.2 Before Every Use

Check that all hardware (nuts, bolts, etc.) are in their right place and are tight.

Inspect and replace any worn, torn, or missing safety decals.

Check to make sure the bucket is not warped or bent.

5.3 Every Week

Check the condition of the mounting frame. Repair if necessary.

Check the condition of the bolt-on edge or teeth, whichever is equipped. Contact Blue Diamond® Product Support to order replacements for the bolt-on edge or teeth as soon as they become worn.

5.4 After Every Season

Inspect the attachment for any loose or worn parts that may need to be replaced prior the next season.

Inspect the bolt-on edge or teeth, whichever is equipped. Replace if necessary.

Clean and repaint any area that looks worn or scratched to prevent further rusting. Use an equipment paint found at a local hardware store.

Replace any safety decals that have been lost or damaged.

Store the attachment in a shed or cover with a waterproof tarp to protect it from the weather.

Do not store in an area frequented by children.

5. Maintenance

5.5 Bolt–On Edge, Tooth Edge, & Tooth Bar



WARNING



AVOID SERIOUS INJURY OR DEATH

To avoid serious injury or death, do not go underneath any part of an unsupported blade or frame when servicing this attachment.



CAUTION



AVOID INJURY

Cutting edges can be very heavy and could cause minor or serious injury if mishandled. Always wear protective gloves and footwear.

Bolt–On Edge

These instructions also apply to serrated and poly edges.

Make sure to park on a flat, level surface and that the attachment is securely supported by blocks and not by the machine's hydraulic system itself. Engage the parking brake, and turn off the engine.

1. Remove any debris around the bolt area.
2. Identify the bolt size. Using the appropriate wrench or socket, loosen and remove the bolts.
3. Remove the worn cutting edge.

NOTE: Blue Diamond's bolt–on edge are reversible. If only one side of the cutting edge has been used and is worn, rotate it 180° before purchasing a new cutting edge.

4. Clean the bolt holes, removing any dirt, rust, and/or debris.
5. Place the new cutting edge onto the bucket's front edge. Align the holes of the cutting edge with the holes of the bucket.
6. Insert a new bolt and nut into each of the holes, and torque according to "7.3 Torque Specifications – Imperial" on page 27.

Tooth Replacement

Make sure to park on a flat, level surface and that the attachment is securely supported by blocks and not by only the machine's hydraulic system. Engage the parking brake, and turn off the engine.

1. Remove any debris around the tooth area.
2. Access the retaining pin that is holding the tooth in place by using a pin removal tool or punch.
3. Using a hammer, remove the pin from the tooth and the shank.
4. Once the pin is removed, slide the worn tooth off the shank.
5. Clean the shank using a wire brush, removing dirt, rust, and/or debris.
6. Slide the new tooth onto the shank, 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.

Tooth Bar

The tooth bar is an accessory that can be added to smooth edge buckets, but the buckets do not come with a pre–drilled hole that for the tooth bar to be installed.

The tooth bar needs to be 1 – 2" smaller than the inside length of the bucket. The hardware should be shipped with the tooth bar.

1. Set the bucket on a flat, level surface with a wood board underneath to slightly lift the front factory edge of the bucket.
2. Slide the tooth bar into the bucket. Make sure that the bar is even. Mark the holes on the bucket using a paint marker that is a different color than the bucket.
3. Remove the bar from the bucket.

5. Maintenance

5.5 Bolt–On Edges, Tooth Edge, & Tooth Bar Cont'd

Tooth Bar Cont'd

4. Using a low speed drill equipped with a pilot–tipped carbide bit, drill a hole through the previously placed marks on each side of the bucket. Make sure to the cutting oil to reduce friction when drilling into the bucket.
5. Place the bar back inside the bucket. This might require some force, depending on the length of the tooth bar.
6. Place a bolt through the bucket and the tooth bar. Hand–tighten the nut onto the bolt. Repeat for the other side.

NOTE: Blue Diamond® recommends to have the nut facing the inside of the bucket to avoid bending in case of removal.

7. Using a 3/4" socket or wrench, tighten the nuts on each side.

5.6 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

5.7 Storage

Storage

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

- 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 Severe Duty Low Profile Bucket has been in storage, it is necessary to follow a list of items to return the attachment to service.

- Connect and operate the attachment and check for correct function.
- Check for leaks. Repair as needed.

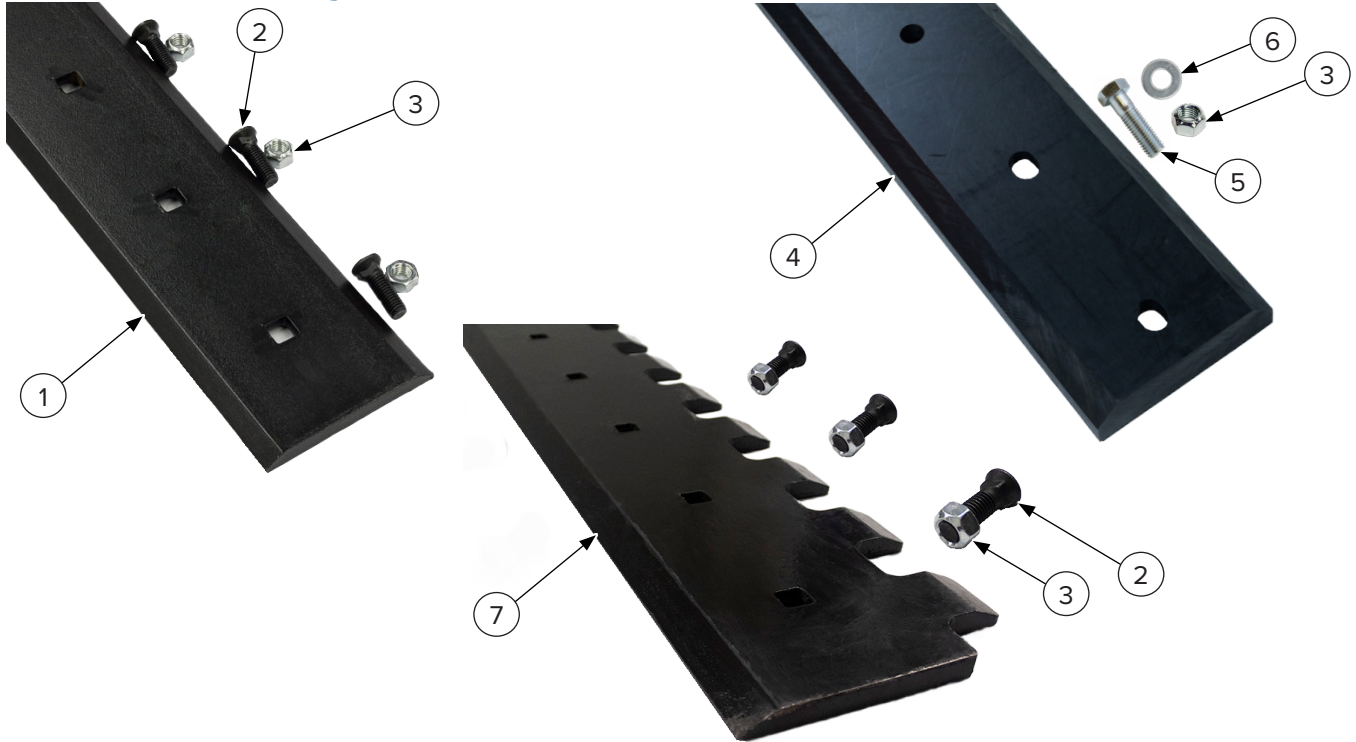
5. Maintenance

5.8 Troubleshooting

PROBLEM	CAUSE	SOLUTION
Bucket does not cover the width of the machine.	Bucket too small for the host machine	Contact Blue Diamond® Product Support or your local dealer to get a properly sized bucket.
	Bucket too large for the host machine	
Machine cannot pick up loaded bucket.	Loaded bucket exceeds the host machine's lift capacity.	Contact Blue Diamond® Product Support or your local dealer to get a properly sized bucket.
Grading not level or smooth.	Front edge worn	Replace bolt-on edge with new one.
	Rear heel worn	Be aware of downpressure being used when grading/leveling the ground.
Bucket damaged, i.e. bent, cracked, buckling, etc.	Bucket not rated for the host machine's horsepower	Contact Blue Diamond® Product Support or your local dealer to get a properly sized bucket.

6. Parts

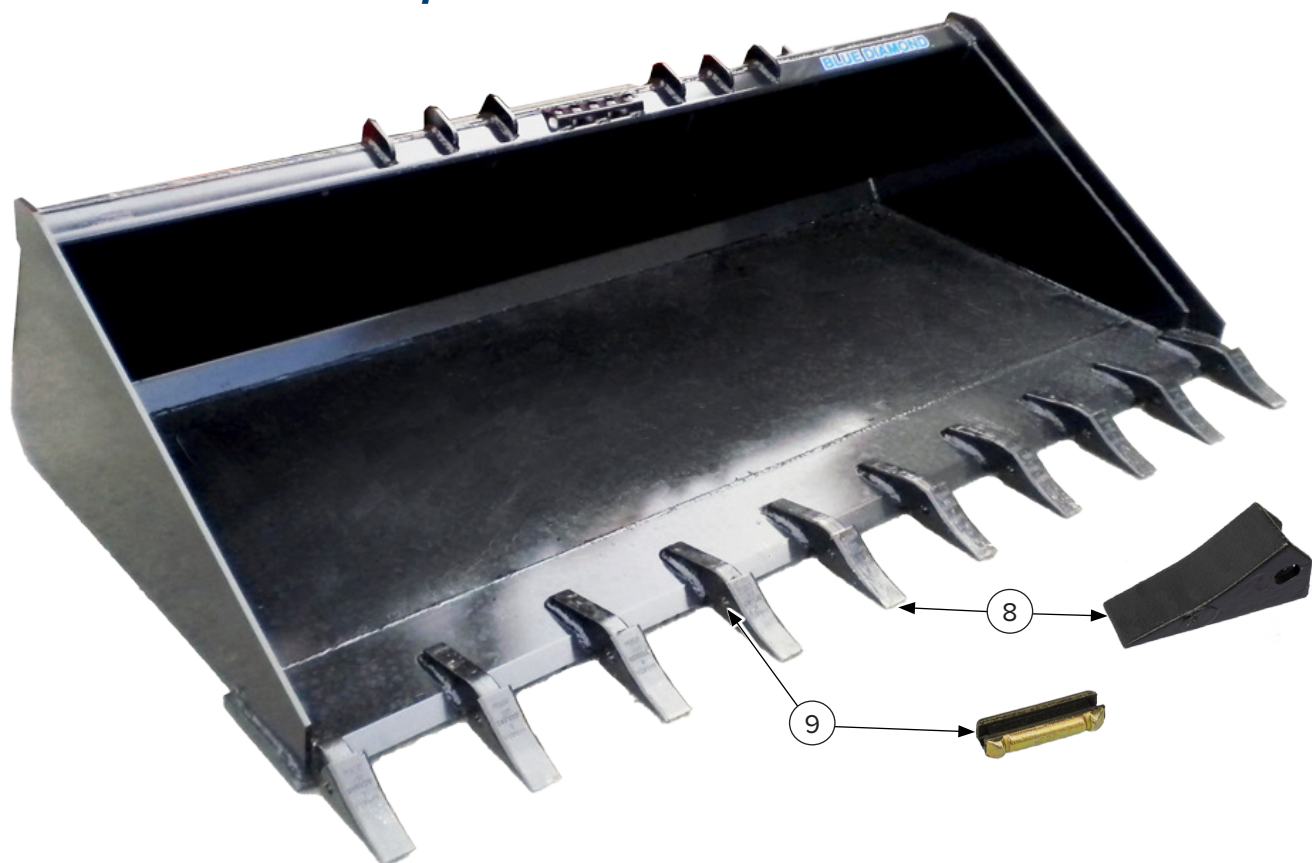
6.1 Bolt-On Edge Components



ITEM	PART NUMBER	DESCRIPTION	QTY
1	309120	66" Long, 3/4" Thick Boron Steel Bolt-On Edge Kit with Hardware	1
	309125	72" Long, 3/4" Thick Boron Steel Bolt-On Edge Kit with Hardware	
	309130	78" Long, 3/4" Thick Boron Steel Bolt-On Edge Kit with Hardware	
	309140	84" Long, 3/4" Thick Boron Steel Bolt-On Edge Kit with Hardware	
2	109176	5/8"-11 x 2" Bolt	A/R
3	109177	5/8"-11 Stover Lock Nut	A/R
4	309120-P	66" Long, 1 1/2" Thick UHMW Poly Bolt-On Edge Kit with Hardware	1
	309125-P	72" Long, 1 1/2" Thick UHMW Poly Bolt-On Edge Kit with Hardware	
	309130-P	78" Long, 1 1/2" Thick UHMW Poly Bolt-On Edge Kit with Hardware	
	309140-P	84" Long, 1 1/2" Thick UHMW Poly Bolt-On Edge Kit with Hardware	
5	109180	5/8"-11 x 2 1/4" Hex Head Bolt	A/R
6	299844	5/8" SAE Washer	A/R
7	308206	66" Long Serrated Bolt-On Edge Kit with Hardware	1
	308208	72" Long Serrated Bolt-On Edge Kit with Hardware	
	308210	78" Long Serrated Bolt-On Edge Kit with Hardware	
	308212	84" Long Serrated Bolt-On Edge Kit with Hardware	

6. Parts

6.2 Tooth Shank Components



ITEM	PART NUMBER	DESCRIPTION	QTY
8	210005	Tooth, Heavy Cast 230 (Side Pin)	See table below
9	210006	Tooth Retainer Pin for 230 Tooth (Side Pin)	

Tooth & Pin Quantity

BUCKET SIZE	66"	72"	78"	84"
QTY	8	8	9	10

6. Parts

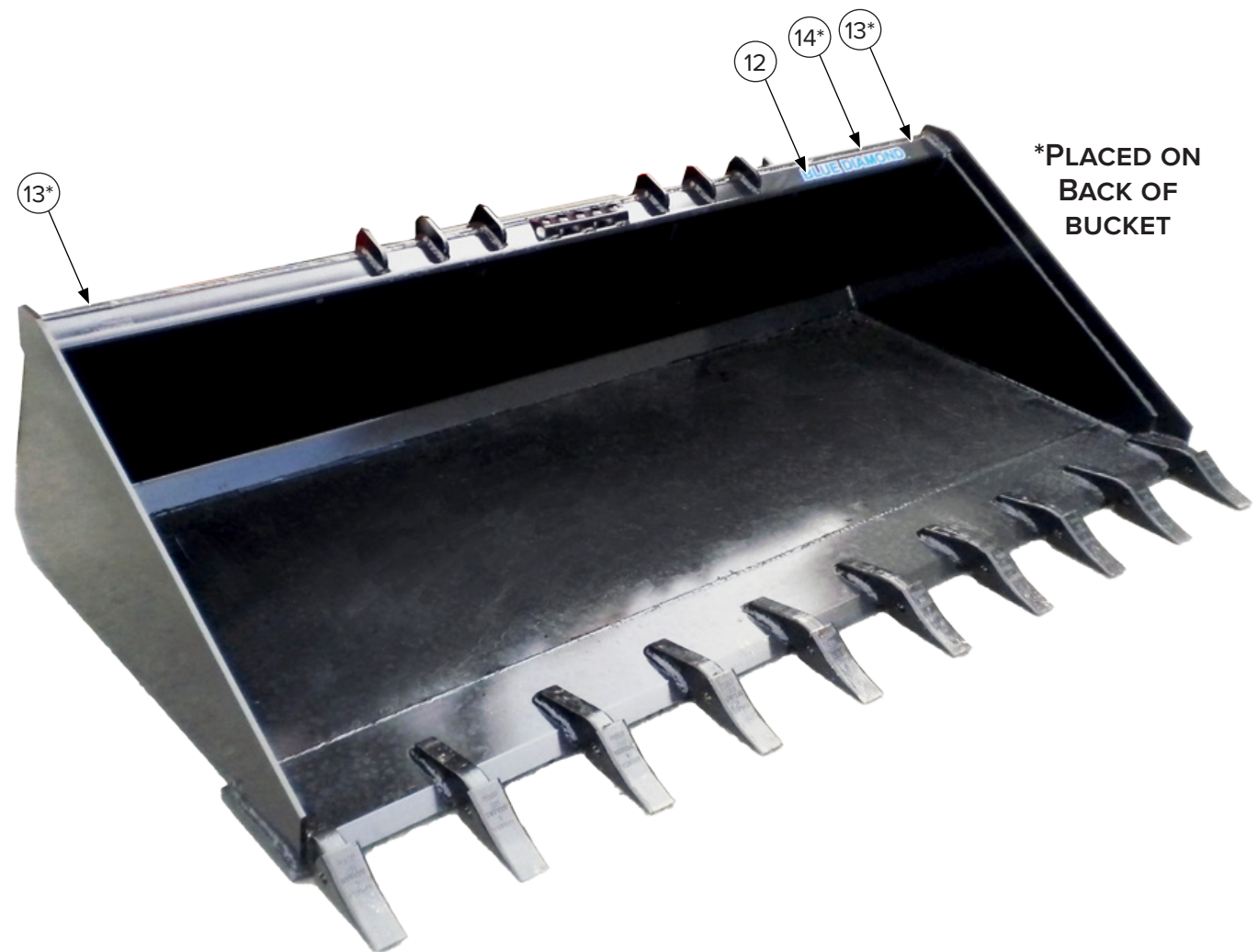
6.3 Tooth Bar Components



ITEM	PART NUMBER	DESCRIPTION	QTY
10	109764	Tooth Bar 64" Fits Buckets with 66.25" to 66" Inside Dimension	1
	109770	Tooth Bar 70" Fits Buckets with 70.25" to 72" Inside Dimension	
	109776	Tooth Bar 76" Fits Buckets with 76.25" to 78" Inside Dimension	
	109782	Tooth Bar 82" Fits Buckets with 82.25" to 84" Inside Dimension	
11	209505	1/2"-13 x 1 3/4" Bolt with Locknut & 2 Washers	2

6. Parts

6.4 Safety Decals



12 **BUILT STRONG. ATTACHED FOR LIFE.**



ITEM	PART NUMBER	DESCRIPTION	QTY
12	BD-134	24.6" x 2.0" Decal, Tagline Single Line	1
13	BD-060	2.4375" x 3.375" Decal, Blue Diamond Attachments	2
14	BD-092	1.5" x 2.0" Decal, Warranty Registration QR	1

7. Specifications

7.1 Attachment Specifications

DESCRIPTION	108260	108263	108270	108273
Width	66 in. (1,676 mm)		72 in. (1,829 mm)	
Type of Edge	Smooth	Tooth	Smooth	Tooth
Depth	29 in. (737 mm)			
Height	19 in. (483 mm)			
Bottom	1/2 in. (12 mm)			
Back	Double Layer 1/4 in. (6 mm)			
Struck Capacity	10.4 ft. ³ (0.29 m ³)		11 ft. ³ (0.31 m ³)	
Max. Horsepower	120 HP			
Weight	650 lbs (295 kg)	675 lbs (306 kg)	672 lbs (305 kg)	702 lbs (318 kg)

DESCRIPTION	108275	108277	108280	108282
Width	78 in. (1,981 mm)		84 in. (2,134 mm)	
Type of Edge	Smooth	Tooth	Smooth	Tooth
Depth	29 in. (737 mm)			
Height	19 in. (483 mm)			
Bottom	1/2 in. (12 mm)			
Back	Double Layer 1/4 in. (6 mm)			
Struck Capacity	12 ft. ³ (0.34 m ³)		12.9 ft. ³ (0.37 m ³)	
Max. Horsepower	120 HP			
Weight	690 lbs (313 kg)	757 lbs (343 kg)	738 lbs (335 kg)	813 lbs (369 kg)

7. Specifications

7.2 Attachment Specifications – Long Bottom

DESCRIPTION	108284	108285	108286	108287
Width	72 in. (1,829 mm)		78 in. (1,981 mm)	
Type of Edge	Smooth	Tooth	Smooth	Tooth
Depth	35 in. (889 mm)			
Height	19 in. (483 mm)			
Bottom	1/2 in. (12 mm)			
Back	Double Layer 1/4 in. (6 mm)			
Struck Capacity	15.2 ft. ³ (0.43 m ³)		16.5 ft. ³ (0.47 m ³)	
Max. Horsepower	120 HP			
Weight	732 lbs (xx kg)	774 lbs (xx kg)	811 lbs (xx kg)	*846 lbs (xx kg)

DESCRIPTION	108290	108293
Width	84 in. (2,134 mm)	
Type of Edge	Smooth	Tooth
Depth	35 in. (889 mm)	
Height	19 in. (483 mm)	
Bottom	1/2 in. (12 mm)	
Back	Double Layer 1/4 in. (6 mm)	
Struck Capacity	17.7 ft. ³ (0.5 m ³)	
Max. Horsepower	120 HP	
Weight	853 lbs (387 kg)	892 lbs (405 kg)

7. Specifications

7.3 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



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 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 buyers.

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 disassembly 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, 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

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