

Land Planes All Models

Operation and Maintenance Manual



115030, 115040, & 115060



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® Land Plane. 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 right of the frame 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
1. Pre-Delivery Inspection Instructions	4
1.1 Safety & Documentation	4
1.2 Visual Inspection	4
1.3 Operational Test	4
1.4 Final Delivery	4
2. Introduction.....	5
2.1 Attachment Identification	5
2.2 About this Attachment	6
2.3 Attachment Model Numbers	6
3. Safety	7
3.1 General Safety Information	7
3.2 Operators	8
3.3 Safety Guidelines	9
4. Operation	11
4.1 Pre-Operation Inspection	11
4.2 Machine Requirements	11
4.3 Transporting the Attachment	12
4.4 Entering & Exiting the Prime Mover	12
4.5 Attachment Installation	12
4.5 Attachment Installation Cont'd	13
4.6 Operating the Attachment	13
4.7 Operating Tips	14
5. Maintenance	15
5.1 Service Schedule	15
5.2 Maintenance Safety	16
5.3 Daily Maintenance	16
5.4 Seasonal Maintenance	17
5.5 Cutting Edge Sharpening	17
5.6 Cutting Edge Replacement	18
5.7 Cleaning the Attachment	18
5.8 Spare Parts & Accessories	18
5.9 Storage	19
5.10 Troubleshooting	19
6. Parts.....	20
6.1 Main Components	20
6.2 Safety Decals	21
7. Specifications	22
7.1 Attachment Specifications	22
Warranty Policies.....	24

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, etc.
- ☐ Fasteners are properly torqued.

1.3 Operational Test

- ☐ Verify attachment has been connected to the host machine that will be used for operation and tested.

1.4 Final Delivery

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

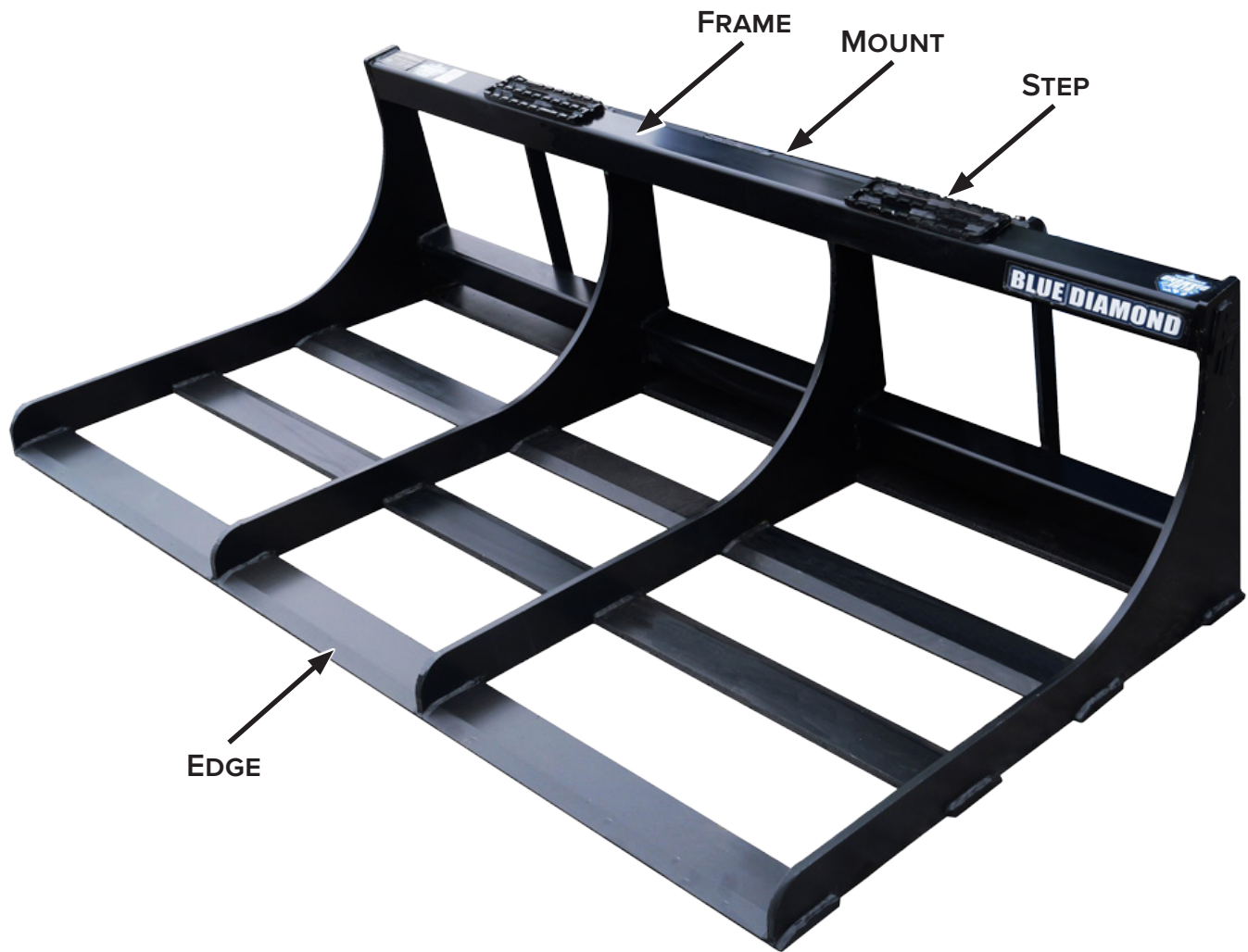
TECHNICIAN: _____

CUSTOMER: _____

DATE: _____

2. Introduction

2.1 Attachment Identification



2. Introduction

2.2 About this Attachment

Achieve a smooth, professional finish on dirt and gravel surfaces with the Blue Diamond® Land Plane. Engineered with four heavy duty cutting edges, this attachment efficiently shaves high spots and fills low areas in fewer passes. Ideal for driveway maintenance, site preparation, sod removal, and trail leveling, it's a true multipurpose tool for demanding jobs.

Designed to operate in both forward and reverse, the Land Plane increases productivity while reducing operator fatigue. Built in the USA from thick steel and protected with a durable finish, it delivers long service life at a cost-effective price point — making it a smart investment for contractors and property maintenance professionals.

2.3 Attachment Model Numbers

MODEL NUMBER	WIDTH	MOUNT
115030-25	49"	Mini Universal
115030-26	49"	Bobcat MT
115040	72"	Skid Steer
115060	84"	Skid Steer

3. Safety

3.1 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 Land Plane 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 Land Plane 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.

3. Safety

3.2 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; the machine can project material from the back with 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 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

- 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 "7.1 Attachment 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 Land Plane 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 host machine's arms and cylinders to make sure they are in good condition. See your host machine's Operator's Manual for additional information.
- 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.

- Check for wear and tear on the 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.

4.2 Machine Requirements

Only use the Land Plane on compatible host machines.

The Mini Skid Steer Land Plane should not be placed on host machines that exceed forty-five horsepower (45 HP).

The Skid Steer Land Plane should not be placed on host machines that exceed seventy-five horsepower (75 HP).

4. Operation

4.3 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 Land Plane.

Clear dirt, rocks, and any other debris from the Land Plane.

Use a minimum of four (4) heavy duty ratchet straps or chains for the attachment's weight. See "7.1 Attachment Specifications" on page 22 for more information.

Hook the ratchet straps to designated anchor points.

Make sure the Land Plane is secured prior to heading towards the next location.

4.4 Entering & Exiting the Prime Mover



IMPORTANT



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



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.

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.

4.5 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 connecting.
- Keep fingers and hands out of pinch points when connecting and disconnecting the attachment.

4. Operation

4.5 Attachment Installation Cont'd

Connecting Attachment to the Machine

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.

Leave the operator's position. See "Leaving the Operator's Position" on page 12.

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 12.

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 12.

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.

4.6 Operating the Attachment



WARNING



AVOID SERIOUS INJURY OR DEATH

Never allow riders on the attachment.



WARNING



AVOID SERIOUS INJURY OR DEATH

DO NOT operate Land Plane in vicinity of bystanders, animals, or damageable property. The cutting edges are sharp and can cut people and objects.

The Land Plane is the most effective skid steer attachment when it comes to grading gravel driveways, farm laneways, rough terrain, etc.

When used correctly, it moves material off high spots and deposits the material removed into low spots with little effort.

4. Operation

4.6 Operating the Attachment Cont'd

To correctly operate the Land Plane, perform the following:

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 12.
3. Set the Land Plane at the desired height for grading. If the attachment is set at a fixed height, it is best to start at a higher point instead of lower to avoid moving a lot of material in a single pass. This will cause uneven grading.

NOTE: Float mode can be engaged. (Consult the machine's Operator's Manual for this function.) Float allows the Land Plane to follow the contours of ground, evening out the ground that is already there versus trying to evenly cut into the ground.

4. With the desired height set or float engaged, drive forward or in reverse at a safe, slow speed. The cutting edges should be cutting into high spots, causing the excess material to be carried within the frame. The excess material should be rolling off the frame and filling in the low spots.

Be sure to work lengthwise as this will yield the best results. This maximizes distance over which the material is being redistributed.

Try to avoid stopping mid-pass as this can create a ridge or a divot.

5. When starting a new pass, be sure to overlap the Land Grader with the previous pass to ensure a uniform finish.
6. Multiple passes may be needed depending on the unevenness of the ground or material being graded.

4.7 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 "4.1 Pre-Operation Inspection" on page 11.
- 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.
- Maintain distance from any type of utility, whether underground or overground.
- Be sure to work lengthwise as this will yield the best results. This maximizes distance over which the material is being redistributed.
- Try to avoid stopping mid-pass as this can create a ridge or a divot.
- The initial pass is typically used to break up and roughly level the material, then the following passes are used to level any remaining spots.
- Work on dry, solid material. If the material is too wet or too soft, the material may clump and will not grade evenly.
- Start grading from the high points of the work area and work towards the low points.
- Know the material being graded. Clay, gravel, top soil, etc. all behave differently when it comes to grading.
- Keep the cutting edges shallow to not overloading the frame, causing uneven distribution of material.
- Overlap passes by at least 25% to avoid thin ridges and unevenness between passes.
- To obtain a finer finish, go forward and backwards over the same pass to ensure all high spots are removed and all low spots are filled in.

5. Maintenance

5.1 Service Schedule

DESCRIPTION	SERVICE PROCEDURES					
	Check	Clean	Lube	Change	Adjust	Drain
Daily Maintenance (or every 8 hours)						
All Hardware	•					
Cuttings Edges	•	•				
Safety Decals	•					
Weekly Maintenance (or every 40 hours)						
Cutting Edges	•					
Frame (cracks, bends, or damage)	•					
Seasonal Maintenance						
All Hardware	•				•	
Paint	•			•		
Safety Decals	•			•		

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.

5. Maintenance

5.2 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.

- Periodically tighten all nuts, bolts, and screws, and check that all pins are properly installed to ensure the unit is in safe condition.
- When completing a maintenance or service function, make sure all safety shields and devices are installed on the host machine prior to servicing the attachment.
- Always use two (2) people to handle heavy components during assembly, installation, removal, or movement of the attachment itself.
- Check that all safety decals are properly installed and legible.
- Good maintenance is the responsibility of the operator. Poor maintenance will lead to a shorter life cycle of the attachment.
- Never work under the machine or attachment unless the machine or attachment is blocked or securely supported.
- When replacement parts are necessary, genuine factory replacement 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.

- 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.
- 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.

5.3 Daily Maintenance

Inspect the attachment by performing a walkaround daily before and after use. Use the following inspection checklist as a guideline.

Perform the following after every eight (8) hours of operation:

- Verify that the attachment is properly connected to the host machine.
- Check all components and hardware to ensure the equipment is securely and thoroughly tightened.
- Check the frame and all welds for cracks or damage.
- Check the mounting frame for proper operation and signs of damage or unusual wear.
- Check the attachment's mounting hardware for wear or damage. Inspect the pins and mount on the attachment for wear or damage.
- Check for damaged or missing safety decals.

5. Maintenance

5.3 Daily Maintenance Cont'd

- Check the cutting edges for damage, such as bends, cracks, or dullness.
- Check that all shields and guards are in place.
- Verify that the proper attachment is being used for the task at hand. Use the Land Plane for finishing details when it comes to leveling.



IMPORTANT



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

NOTE: Repair or replace any damaged parts.

NOTE: After initial use or repair/replacement of damaged parts, it is important to check the repaired/replaced parts for proper bolt torque and operation.

5.4 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 the 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 “5.9 Storage” on page 19.

5.5 Cutting Edge Sharpening

The cutting edge on the Land Plane will eventually become worn and need sharpening to maintain quality performance.

To sharpen the cutting edge, perform the following:

1. Follow all instructions in 5.2 Maintenance Safety.
2. Inspect the cutting edge for major chips, cracks, or extreme thinning. If any of these are present, the cutting edge must be replaced. See “5.6 Cutting Edge Replacement” on page 18.
3. Remove the cutting edge from the frame if possible for ease of sharpening. Grind out the weld using an angle grinder with a metal-cutting or grinding wheel to release the edge from the frame.
4. Secure the edge in a vise or securely clamp it to a work area.
5. Using an angle grinder equipped with a grinding wheel, grind along the existing bevel edge. Try to match the original angle of cutting edge. **DO NOT** try to create a new angle.
6. Work in smooth, consistent passes along the length of the edge as this is ensure even and consistent sharpening. Do not continuously grind in one spot as this will create extreme heat and unevenness.
7. Use a straight edge to periodically check the work on the cutting edge, making sure no high or low spots are being created during the sharpening process.

5. Maintenance

5.6 Cutting Edge Replacement

The cutting edge may need replaced if they are damaged or have been sharpened to where the edge is now razor-thin, which will not hold up against uneven earth.

To replace the cutting edge, perform the following:

1. Follow all instructions in 5.2 Maintenance Safety.
2. Remove the cutting edge from the frame if possible for ease of sharpening. Grind out the weld using an angle grinder with a metal-cutting or grinding wheel to release the edge from the frame.
3. Align the new cutting edge with the existing frame. Tack weld the edge in place to ensure the alignment is correct.
4. Once confirmed the alignment is correct, fully weld the cutting edge into the frame. The edge may need multiple passes to provide better security and strength. Be sure not to overheat the frame as this could cause it to warp.
5. Grind the weld where necessary to ensure a smooth surface to avoid it catching material or creating divots or ridges when in operation.
6. Inspect the weld and ensure it is in good condition, that there is no porosity, cold lap, or cracks.
7. Once deemed that the weld is good, prime and paint the frame and cutting edge to protect it against rust since this cutting edge will come in contact with soil, gravel, and other material that can hold moisture.

5.7 Cleaning the Attachment

To maintain safety and quality performance, it is best to clean the Land Plane 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 12.
3. Use water or air pressure to clean debris from the Land Plane's frame and cutting edges.

Be careful when removing any obstructions that are wrapped around the frame or cutting edges.

5.8 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

5. Maintenance

5.9 Storage

Storing the Attachment

Sometimes it may be necessary to store your Land Plane 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.
- 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 Land Plane has been in storage, it is necessary to follow a list of items to return the attachment to service.

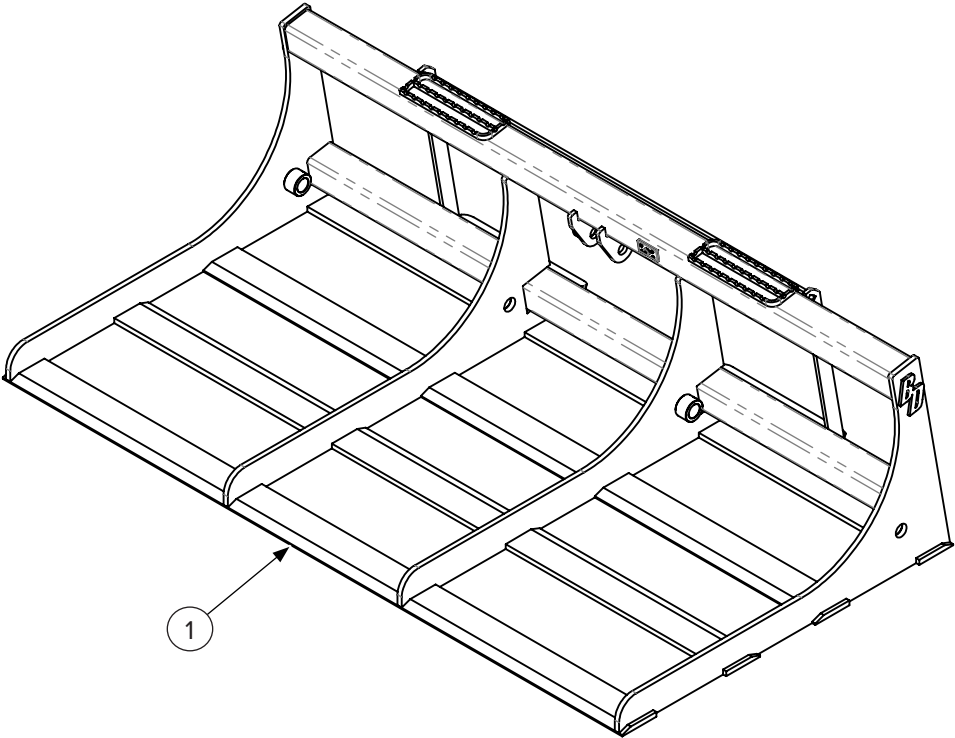
- Connect and operate the attachment and check for correct function.
- Check for leaks. Repair as needed.

5.10 Troubleshooting

PROBLEM	CAUSE	SOLUTION
Land Plane is continually cutting deeper than intended.	Attachment not level	Learn what the Land Plane looks like in a level position prior to operation.
	Host machine's hydraulic system leaking	Investigate and repair.
Host machine is bogging down excessively.	Too much material being leveled at once	Raise the Land Plane so that a shallower layer is being leveled.
	Material extremely hard or wet	Material may need to be loosened or shallower layer may need to be worked. Also may need to wait for material to dry.
One side of Land Plane is digging into the ground.	Bent cutting edge	Investigate and repair.
	Bent frame	Contact Blue Diamond® Product Support.
Land Plane is not cutting into the ground.	Land Plane not lowered enough	Lower the Land Plane deeper into the ground.
	Dull or worn cutting edge	Sharpen or replace cutting edge.
	Material extremely hard or wet	Material may need to be loosened or shallower layer may need to be worked. Also may need to wait for material to dry.
Grade is uneven and/or streaky.	Dull or worn cutting edge	Sharpen or replace cutting edge.
	Bent frame	Contact Blue Diamond® Product Support.
	Ground speed too fast	Slow speed when operating.
Land Plane "bounces" while operating.	Ground speed too fast	Slow speed when operating.
	Material extremely hard or wet	Material may need to be loosened or shallower layer may need to be worked. Also may need to wait for material to dry.
Material is building up.	Wet or clay-heavy material	Clear material out. May need to wait for material to dry.
	Debris caught in frame	Remove debris from the frame to allow uninterrupted material flow.

6. Parts

6.1 Main Components



ITEM	PART NUMBER	DESCRIPTION	49" QTY	72" QTY	84" QTY
1	215030	49" Replacement Cutting Edge	4	—	—
	—	72" Replacement Cutting Edge	—	4	—
	215040	84" Replacement Cutting Edge	—	—	4

6. Parts

6.2 Safety Decals



BUILT STRONG. ATTACHED FOR LIFE.

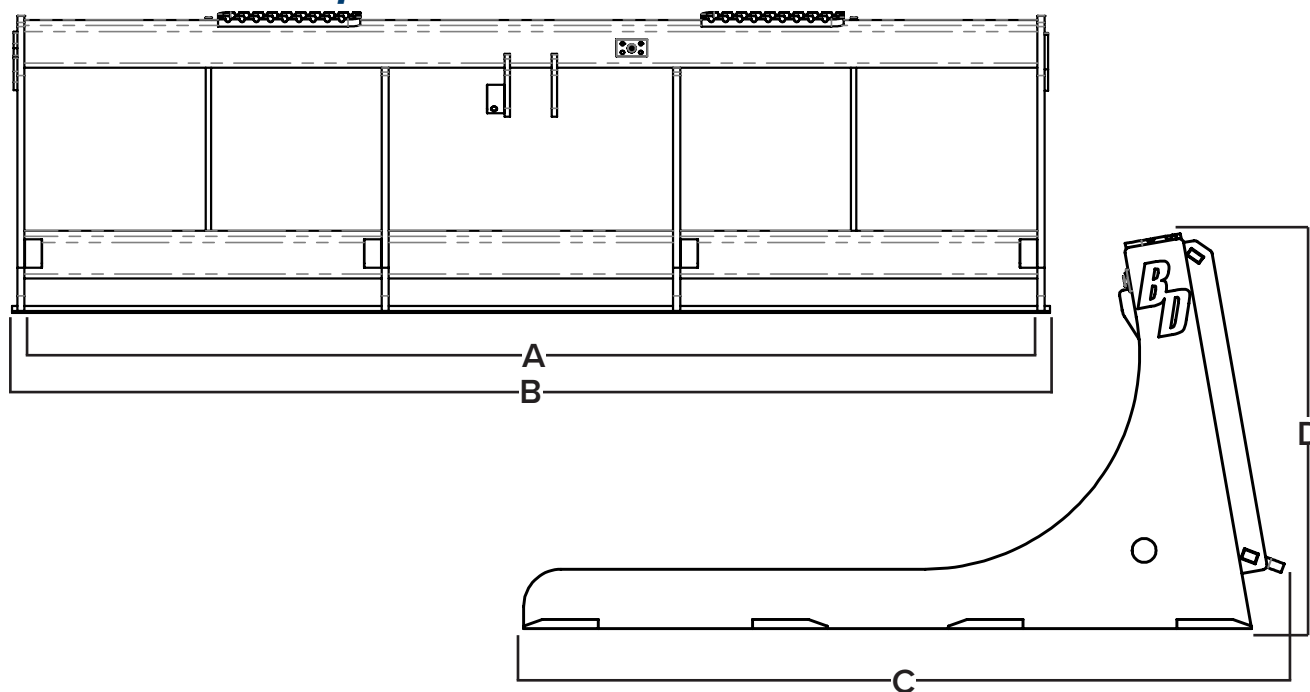
BD-133



ITEM	PART NUMBER	DESCRIPTION	QTY
2	BD-056	2.0" x 12.0" Decal, Blue Diamond	1
3	BD-133	1" Tall Decal, Tag Line Single Line for Mini	1
	BD-134	2" Tall Decal, Tag Ling Single Line for Full Size	
4	BD-060	2.4375" x 3.375" Decal, Blue Diamond Attachments	2
5	BD-092	1.5" x 2.0" Decal, Warranty Registration QR	1

7. Specifications

7.1 Attachment Specifications



DESCRIPTION	115030-25	115030-26	115040	115060
Working Width	48 in. (1,219 mm)		72 in. (1,829 mm)	84 in. (2,134 mm)
Overall Width	49 in. (1,245 mm)		73 in. (1,854 mm)	85 in. (2,159 mm)
Depth	39 in. (991 mm)			
Height	17 1/2 in. (445 mm)	22 in. (559 mm)	21 1/4 in. (540 mm)	
Cutting Edges	4 in. Wide x 1/2 in. Thick (102 mm Wide x 13 mm Thick)			
Steel Frame Thickness	1/2 in. (13 mm)			
Tubing of Steel Frame Size	3 in. x 3 in. (76 mm x 76 mm)			
Number of Cutting Edges	4			
Maximum Horsepower	45 HP		75 HP	
Weight	275 lbs (125 kg)		350 lbs (159 kg)	450 lbs (204 kg)

**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