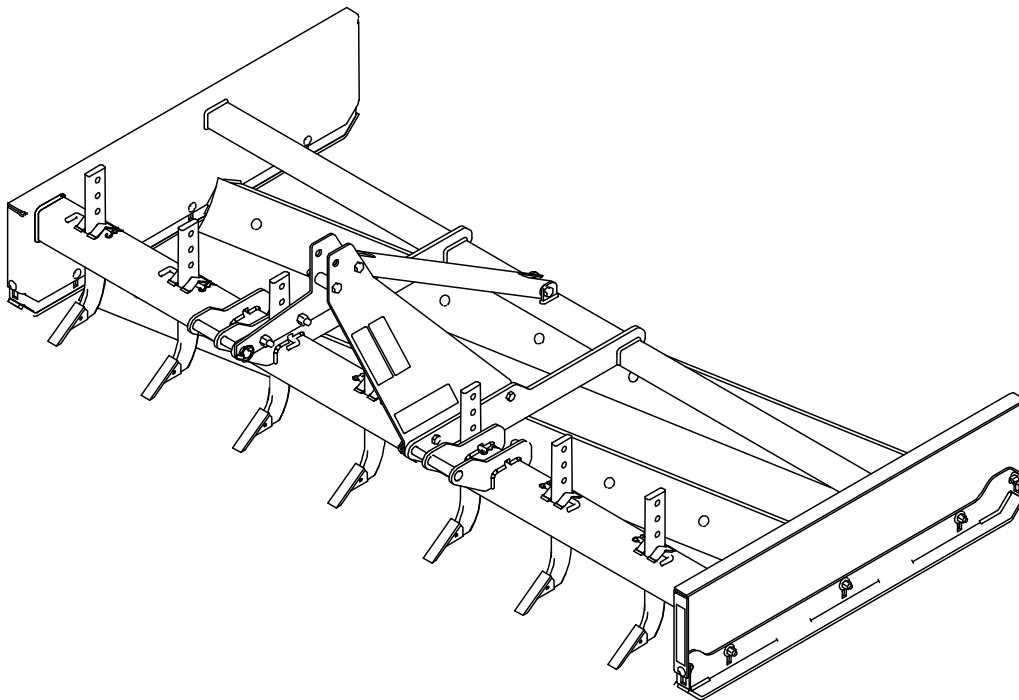


Tractor Dual Edge Grader

Operation and Maintenance Manual



423109, 423112, 423117, 423122, 423127

4000722 | REV-A



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® Tractor Dual Edge Grader. To ensure maximum performance of your equipment, it is mandatory that you thoroughly study the Operation and Maintenance 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 Operation and Maintenance 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.

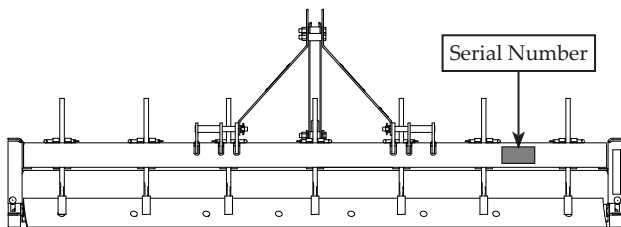
Keep this manual available for frequent reference. All new operators or owners must review the manual before using the equipment and annually thereafter. Contact your Blue Diamond® Attachments Dealer for assistance, information, or additional copies of the manual. Contact www.bluediamondattachments.com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

Operator Orientation

References made to left, right, front and rear, as mentioned throughout this manual, are as viewed from the operator's position.

Serial Number Location

The serial number label on all Tractor Dual Edge Grader models is located on the front left of the shank bar as viewed from the operator's position.



Model Shown: 423127

Identifying Information

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

Model Number: _____

Serial Number: _____

Dealer Name: _____

Dealer Phone: _____

Date of Purchase: _____

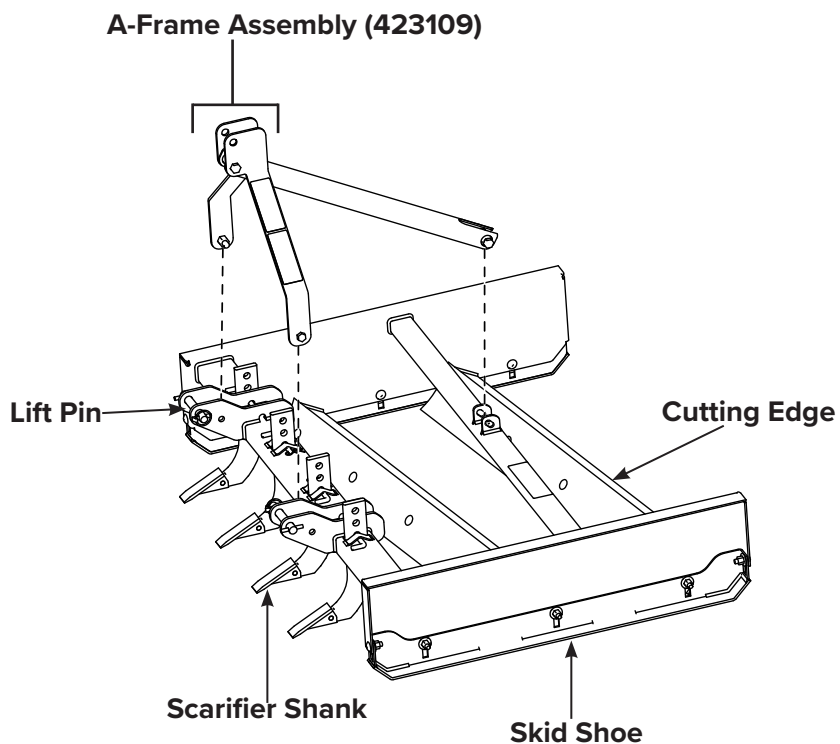


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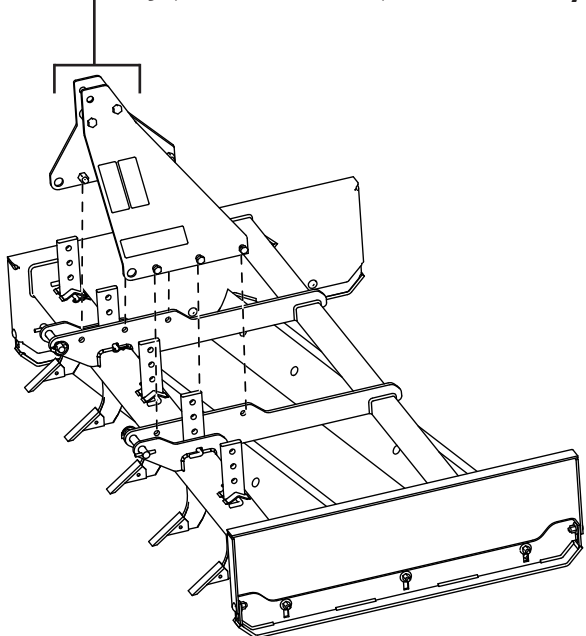
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PRODUCT DESCRIPTION

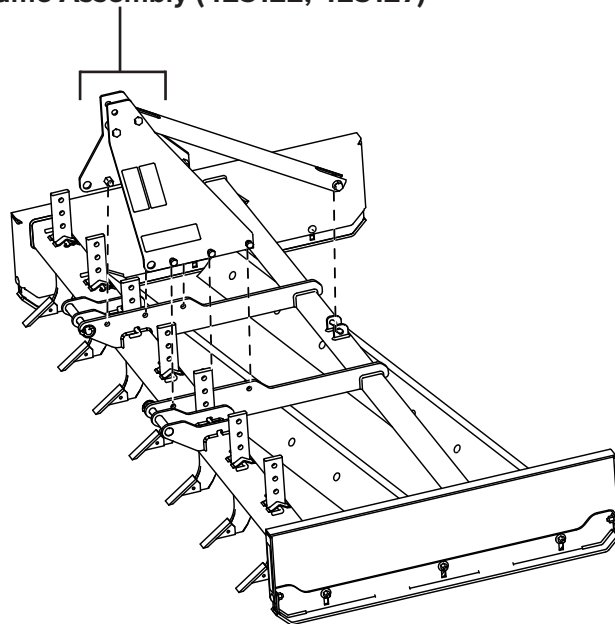
The Blue Diamond® Tractor Dual Edge Grader features two parallel grading blades set at a 10° angle for efficient grading, leveling, and filling. Its welded steel frame includes adjustable, replaceable skid shoes and scarifier shanks. The skid shoes can be rotated for even wear, and the 3/8" x 6" heat-treated cutting edges can be rotated 180° for extended use.



A-Frame Assembly (423112, 423117)



A-Frame Assembly (423122, 423127)



SAFETY GUIDELINES

! ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! !

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgment, and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Throughout this manual, the term **IMPORTANT** is used to indicate that failure to observe procedures can cause damage to equipment. The terms **DANGER**, **WARNING**, and **CAUTION** are used in conjunction with the Safety-Alert Symbol, (a triangle with an exclamation mark), to indicate the degree of hazard for items of personal safety.

! 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.

! CAUTION !

The signal word **CAUTION** on the machine and in the manual 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.

! DANGER !

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

! IMPORTANT !

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

! WARNING !

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

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

CALIFORNIA PROPOSITION 65
WARNING: Cancer and reproductive harm
 For more information about Proposition 65,
 please visit: www.p65warnings.ca.gov

SAFETY

Training

Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from authorized Blue Diamond® Attachments dealers.) Failure to follow instructions or safety rules can result in serious injury or death.

Operators needing assistance understanding any part of this manual should contact an authorized Blue Diamond® Attachments dealer.

Operators must be instructed in and capable of operating the power unit, its attachments, and all controls safely. No one should operate the equipment without proper instructions. Operators must know how to stop the tractor engine and attached implement quickly in an emergency.

Never allow children or untrained persons to operate the equipment.

Preparation

Check that all hardware is installed. Always tighten hardware to torque chart specifications unless instructed otherwise in this manual.

Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, ears, and head; wear respirator or filter mask where appropriate.

Make sure implement is properly secured to power unit, adjusted, and in good operating condition.

Remove accumulated debris from the power unit and implement before operating.

Power unit must be equipped with Rollover Protection Structure (ROPS) or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in “locked up” position at all times.

A minimum of 20% of tractor and equipment weight must be on the tractor’s front wheels when implements are in transport position. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment.
DO NOT ESTIMATE!

Make sure all safety decals are installed. Replace if damaged. (See pp. 6-8, **SAFETY AND INSTRUCTION LABELS** section for location.

Inspect and clear the area of large debris that could damage the implement during use.

Transportation

Always comply with all state and local lighting and marking requirements.

Transport only in daylight or satisfactory artificial light.

DO NOT allow riders on the power unit or implement.

DO NOT operate or transport on steep slopes.

Use extreme care and reduce ground speed on slopes and rough terrain.

DO NOT stop, start, or change directions suddenly on slopes.

DO NOT operate or transport equipment while under the influence of alcohol or drugs.

Power unit must be equipped with Rollover Protection Structure (ROPS) or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in “locked up” position at all times.

Always sit in the power unit seat when operating controls or starting power unit engine. Securely fasten seat belt, place transmission in neutral, engage brake, and ensure all other controls are disengaged before starting power unit engine.

Operation

DO NOT operate or transport equipment while under the influence of alcohol or drugs.

Operate only in daylight or satisfactory artificial light.

Always comply with all state and local lighting and marking requirements.

DO NOT allow bystanders in the area when operating, attaching, removing, assembling, or servicing the implement.

DO NOT allow riders on the power unit or implement.

Use extreme care when working close to fences, ditches, other obstructions, or on hillsides.

Keep hands, feet, hair, and clothing away from the power unit engine and attached implement while the power unit engine is running. Stay clear of all moving parts.

Always sit in the power unit seat when operating controls or starting power unit engine. Securely fasten seat belt, place transmission in neutral, engage brake, and ensure all other controls are disengaged before starting power unit engine.

Look down and to the rear to make sure area is clear before operating in reverse.

Be aware that tight turns may cause the implement to come into contact with the rear wheels of the power unit, potentially causing damage to the equipment or personal injury.

Watch for hidden hazards on the terrain during operation.

DO NOT operate or transport on steep slopes.

DO NOT stop, start, or change directions suddenly on slopes.

Use extreme care and reduce ground speed on slopes and rough terrain. When encountering rough terrain, reduce power unit speed to minimize horizontal movement of the implement.

Stop the power unit and implement immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.

Before leaving operator's seat, lower lift arms and set attached implement on the ground. Engage parking brake, stop engine, remove key, and unfasten seat belt.

Power unit must be equipped with Rollover Protection Structure (ROPS) or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in "locked up" position at all times.

Maintenance

Make certain all movement of the power unit and implement components has stopped before approaching for service.

Follow these steps before detaching the implement from the power unit or performing any maintenance:

1. Lower the 3-point hitch and all raised components to the ground
2. Set parking brake
3. Stop engine
4. Remove key
5. Unfasten seat belt

DO NOT go underneath equipment (lowered to the ground or raised) unless it is properly blocked and secured. Never place any part of the body underneath the power unit or implement or between movable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause implement to drop suddenly, causing severe injury or death.



Maintenance Continued

Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, ears, and head. Wear respirator or filter mask when appropriate.

Eye protection must be used when removing or installing scarifier shank clips.

Keep all persons away from operator control area while performing adjustments, service, or maintenance.

DO NOT perform service or maintenance on the implement while it is attached to the power unit and the engine is running.

Frequently check blades/tines/shanks. They should be sharp, free of nicks and cracks, and securely fastened. **DO NOT** handle blades/tines/shanks with bare hands. Careless or improper handling may result in serious injury.

DO NOT modify or permit anyone else to modify or alter the power unit, implement, or any of their components in any way, except as outlined in this manual.

Tighten all bolts, nuts, and screws to torque chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before putting implement into service.

Storage

Always use a power unit to position the implement for storage. **DO NOT** attempt to move the equipment by hand.

Securely block up the equipment for storage using supports sufficient to sustain the implement's weight.

Keep children, bystanders, and livestock away from the storage area.

SAFETY AND INSTRUCTION LABELS

! ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! !

Replace immediately if damaged!

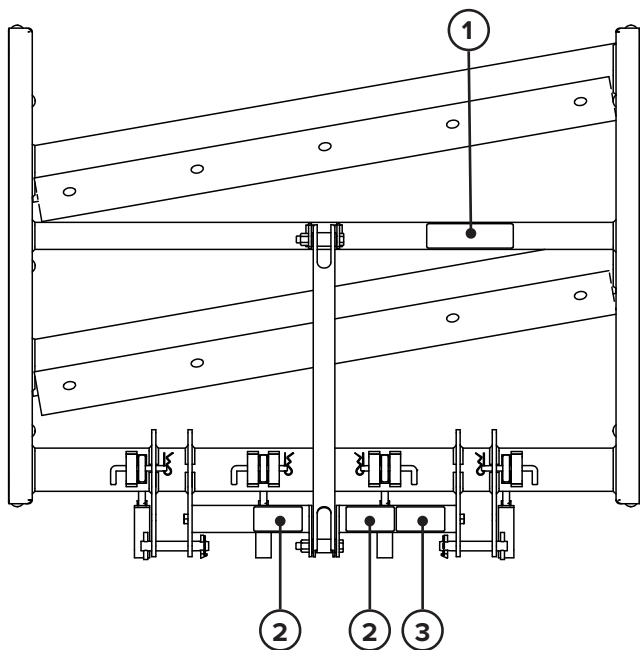
The Tractor Dual Edge Grader comes equipped with all safety labels in place. These safety labels are designed to help users safely operate the equipment. They inform users about possible hazards associated with the normal operation or foreseeable misuse of the product and how to properly avoid those hazards to prevent physical injury or death. Users are required to read and follow their directions.

Safety Label Guidelines

1. Keep all safety labels clean and legible.
2. Replace all damaged or missing labels.
3. New equipment installed during repairs may require replacement safety labels to be affixed to the replaced part, if missing.
4. Contact an authorized Blue Diamond® Attachments dealer to order replacement labels.
5. Refer to Figure 1 and 2 for proper label placement.
6. When installing new labels:
 - a. Clean placement surface with soapy water or surface cleaning solution and allow to dry.
 - b. Peel backing from label, carefully center and place label in proper location ensuring no creases or air pockets.
 - c. Press label firmly onto the surface and use a straight edge to smooth the label on the machine for a secure adhesion.

Figure 1

Top View - Model 423109



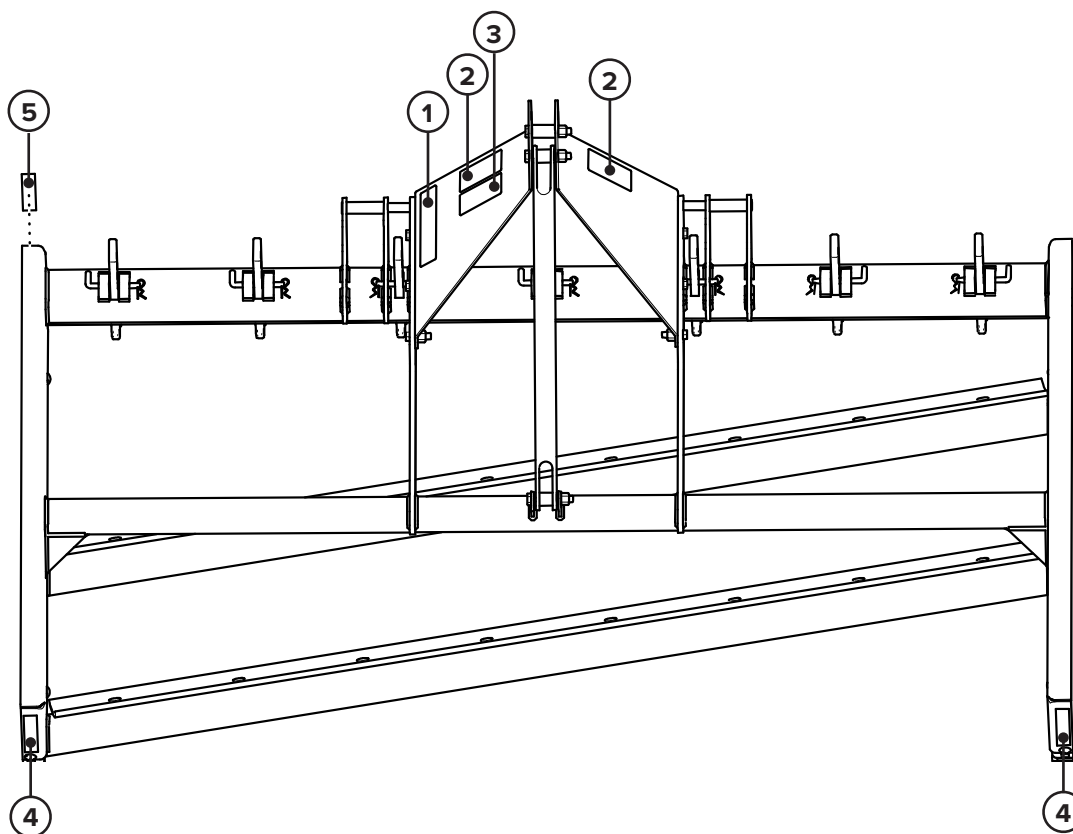
SAFETY AND INSTRUCTION LABELS



! ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! !
 Replace immediately if damaged!

Figure 2

Top View - Model 423127

NOTE: Models 423112, 423117, 423122, and 423127 have identical placement for labels 1, 2, & 3.



! WARNING	
<p>SERIOUS INJURY OR DEATH</p> <p>Falling off can result in being run over.</p> <ul style="list-style-type: none"> • DO NOT allow riders. • Keep seat belt securely fastened. • Tractor must be equipped with ROPS (or ROPS CAB) and seat belt. Keep foldable ROPS systems locked in the raised position at all times. 	<p>SERIOUS INJURY OR DEATH</p> <p>Implement may lower from hydraulic leaks, movement of control levers, or mechanical failure.</p> <ul style="list-style-type: none"> • DO NOT go underneath raised implement. • DO NOT place body parts underneath raised implement. • Service work does not require going under raised implement. Read Operator's Manual for instructions.
 	

1 FALLING OFF

SAFETY AND INSTRUCTION LABELS

⚠ ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! ⚠

Replace immediately if damaged!

⚠ WARNING



CRUSHING AND PINCHING HAZARD

- Be extremely careful handling various parts of the machine. They are extremely heavy and hands, fingers, feet and other body parts could be crushed or pinched between tractor and implement.
- Operate tractor controls from tractor seat only.
- Do not stand between tractor and implement when tractor is in gear.
- Make sure parking brake is engaged before going between tractor and implement.
- Stand clear of machine when in operation or when it is being raised or lowered.

② CRUSHING & PINCHING

⚠ CAUTION

To Avoid Serious Injury:

- Read Operator's Manual before operating, servicing or repairing equipment. Follow all safety rules and instructions.
- Manuals are available from your selling dealer.
- Never allow riders.
- Keep bystanders away from equipment during operation.
- Operate from tractor seat only.
- Keep all shields in place and in good condition.
- Lower equipment to ground, stop engine, remove key and set brake before dismounting tractor.
- Never allow children or untrained persons to operate equipment.

③ AVOID INJURY

RED REFLECTOR

1.25" X 7.25"
(2 Needed)

④ RED REFLECTOR

MODEL 423122 & 423127 ONLY
PART# 7140920

YELLOW REFLECTOR

1.25" X 7.25"

⑤ YELLOW REFLECTOR

MODEL 423127 ONLY
PART# 7189199

ASSEMBLY

Model 423109 Assembly

The 423109 model Tractor Dual Edge Grader ships with the A-Arms and Hitch Support Brace secured flat to the Dual Edge Grader frame. The bottom of each A-Arm is bolted to the main hitch brace. Follow the assembly steps below before attempting to use the implement.



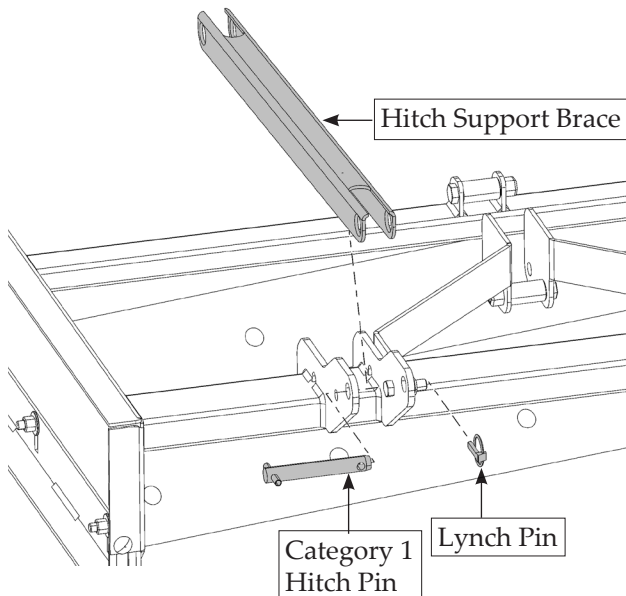
WARNING



- Assemble implement on level ground.
- Wear appropriate personal protective gear.
- Watch for possible pinch points and crushing hazards.

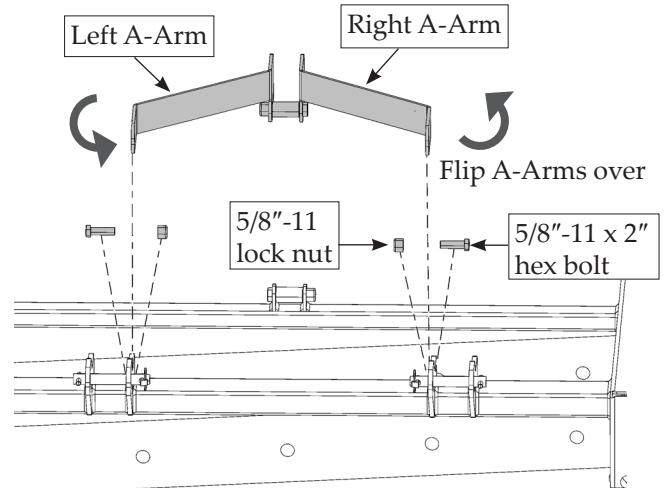
NOTE: Scarifier shanks not shown in assembly diagrams.

1. Cut the zip tie securing Hitch Support Brace to Dual Edge Grader frame. Discard zip tie and cardboard padding.
2. Remove the Category 1 hitch pin securing the other end of the Hitch Support Brace. Set the Hitch Support Brace aside and re-install the Category 1 hitch pin onto the Dual Edge Grader frame.



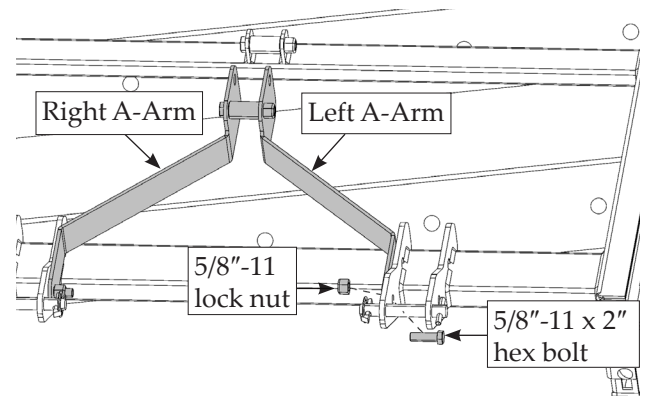
Remove Category 1 hitch pin and Hitch Support Brace. Re-install Category 1 hitch pin.

3. Loosen and remove the two 5/8"-11 x 2" hex bolts securing the A-Arms to the Dual Edge Grader Frame.
4. Flip the A-Arms over, then realign the A-Arm bolt holes with the bolt holes on the inside of the main hitch brace.



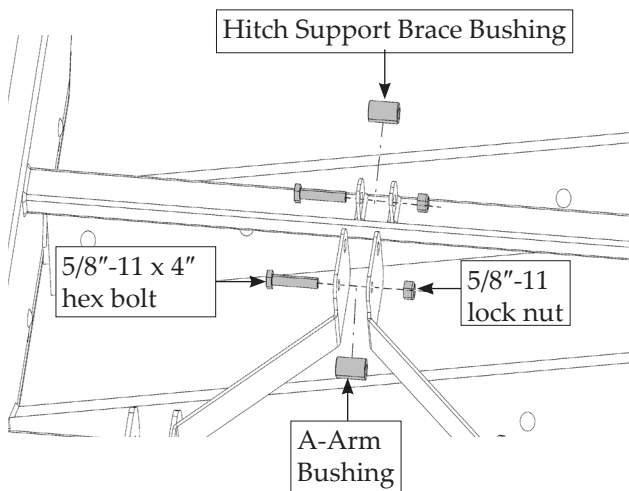
Remove lock nuts, hex bolts, and A-Arms. Flip A-Arms over.

5. Reinsert the 5/8"-11 x 2" hex bolts through the Dual Edge Grader frame and A-Arms and secure with 5/8"-11 nylon lock nuts. (**DO NOT** fully tighten the lock nuts at this time.)



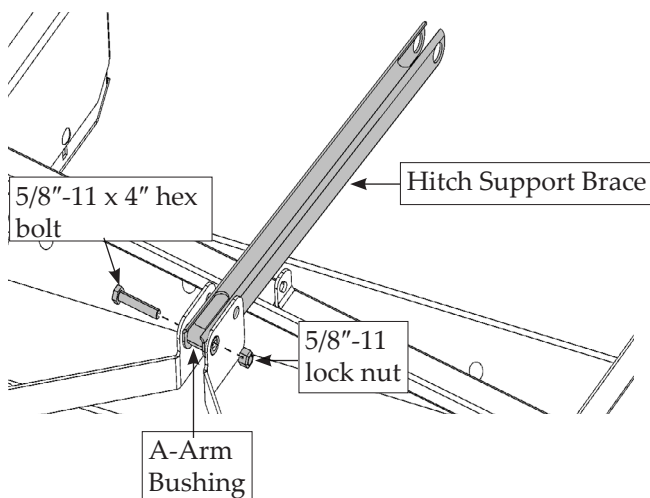
Loosely secure A-Arms with hex bolts and lock nuts.

6. Remove the 5/8"-11 x 4" hex bolt and the spacer bushing from the hitch support brace attachment point located on the center support tube of the Dual Edge Grader frame and set the hardware aside.
7. Remove the 5/8"-11 x 4" hex bolt and the spacer bushing from A-Arms.



Remove A-Arm Bushing and Hitch Support Brace Bushing.

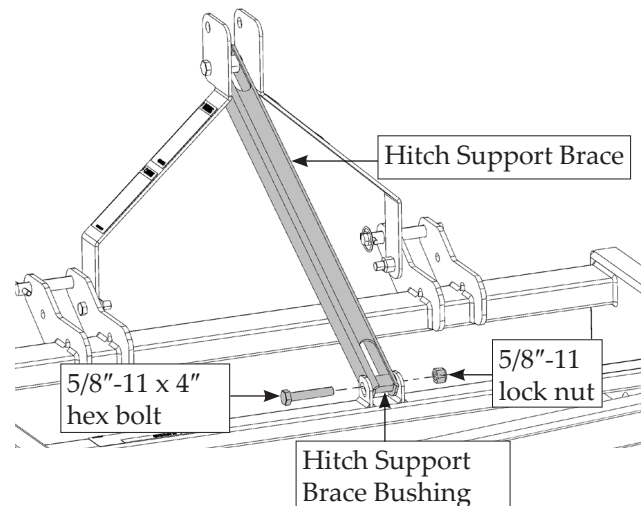
8. Align the A-Arm spacer bushing with one end of the Hitch Support Brace, Then align the bolt holes with the lower bolt holes on the A-Arms. (Ensure the curved edge of the Hitch Support Brace faces down.)
9. Insert the 5/8"-11 x 4" hex bolt through the A-Arm, Hitch Support Brace and spacer bushing. Secure the hex bolt with 5/8"-11 nylon lock nut. (**DO NOT** fully tighten the lock nut at this time.)



Attach Hitch Support Brace to A-Arms.

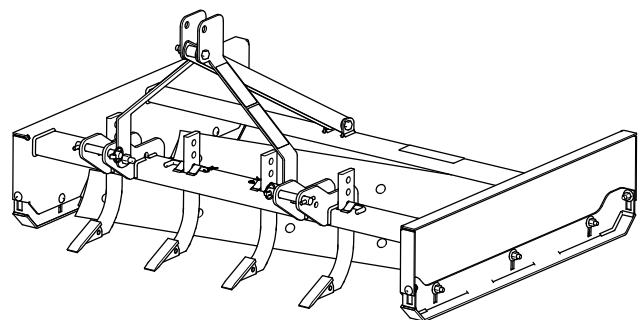
10. Grasp the Hitch Support Brace and push forward, raising the A-Arms until they are perpendicular to the Dual Edge Grader frame.
11. Align the hitch support brace spacer bushing inside the ends of the Hitch support brace.

12. Align the bolt holes on the end of the Hitch Support Brace with the attachment point located on the center support tube of the Dual Edge Grader frame.
13. Insert the 5/8"-11 x 4" hex bolt through the hitch support brace attachment point, Hitch Support Brace, and hitch support brace spacer bushing. Secure with 5/8"-11 nylon lock nut and torque to proper specifications. (See chart on page 30)



Secure Hitch Support Brace to attachment point.

14. Tighten nylon lock nut securing Hitch Support Brace to A-Arms. Torque to proper specifications.
15. Tighten the two lock nuts securing A-Arms to Dual Edge Grader frame. Torque to proper specifications.
16. The Dual Edge Grader is now fully assembled and ready for use.



Fully assembled Model 423109.

ASSEMBLY

Model 423112 and 423117 Assembly

The 423112 and 423117 model Tractor Dual Edge Grader ships with the A-Arms secured flat to the Dual Edge Grader frame. The top of each A-Arm is bolted to the main hitch brace. Follow the assembly steps below before attempting to use the implement.



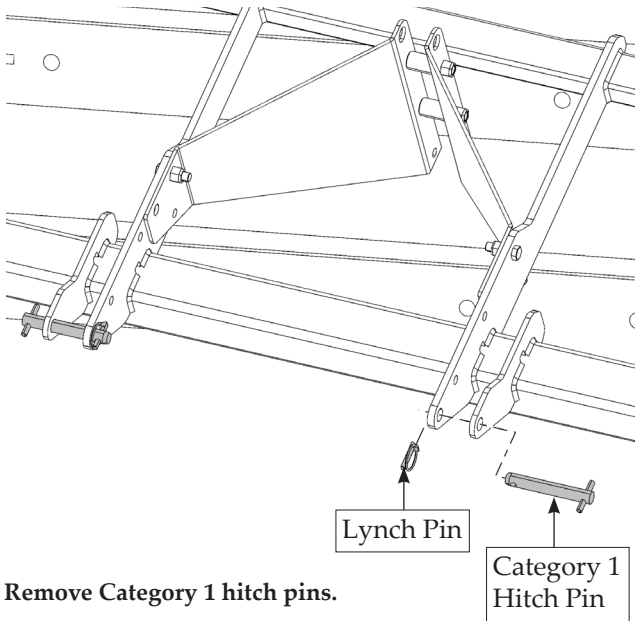
WARNING



- Assemble implement on level ground.
- Wear appropriate personal protective gear.
- Watch for possible pinch points and crushing hazards.

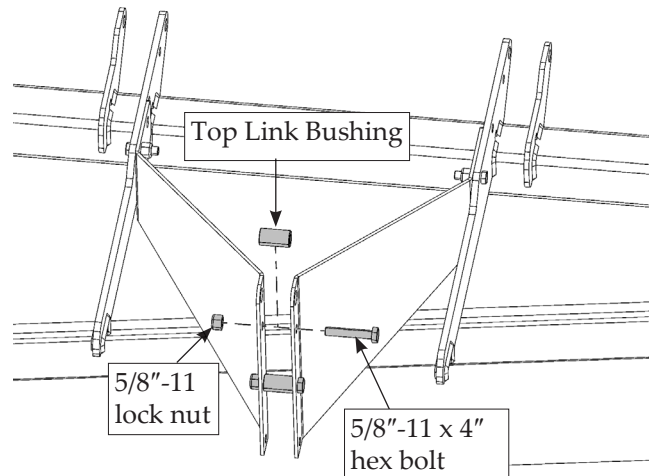
NOTE: Scarifier shanks not shown in assembly diagrams.

1. Remove the two Category 1 hitch pins from the Dual Edge Grader frame and set aside.



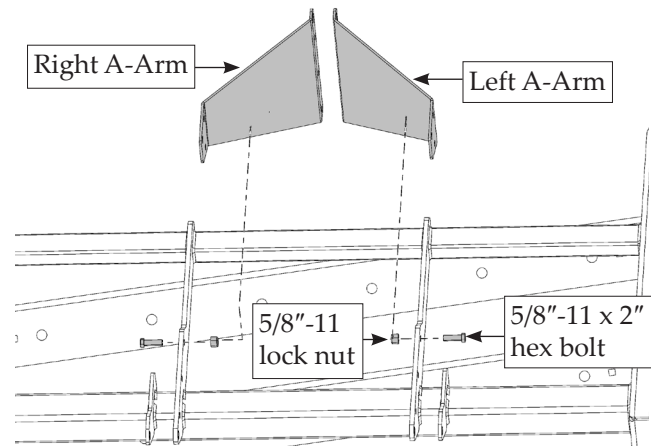
Remove Category 1 hitch pins.

2. The two top link bushings ship bolted to the bottom of the A-Arms. Loosen the 5/8"-11 nylon lock nut and 5/8"-11 x 4" hex bolts securing the bushings to the A-Arms. Remove the hardware and bushings and set aside.



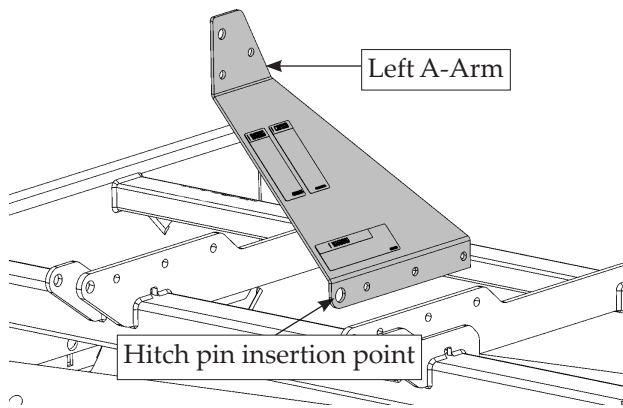
Remove lock nuts, hex bolts, and top link bushings.
(Center support tube removed from image to show detail)

3. Loosen and remove the two 5/8"-11 x 2" hex bolts securing A-Arms to Dual Edge Grader hitch brace and lift each A-Arm away from the frame.



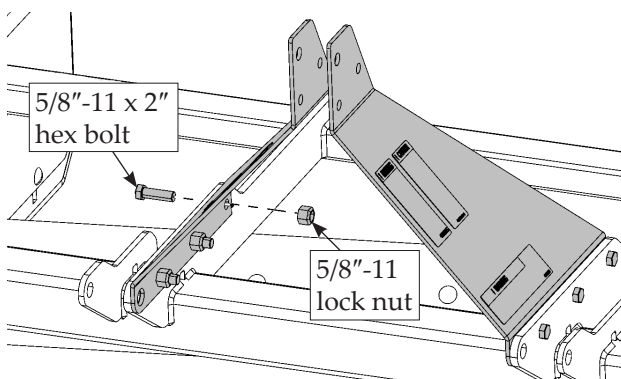
Remove lock nuts, hex bolts, and A-Arms.

4. Each A-Arm connects to the Dual Edge Grader main hitch brace with three 5/8"-11 x 2" hex bolts secured with 5/8"-11 nylon lock nuts (six bolts and nuts total for both A-Arms). Align the bolt holes of one A-Arm with bolt holes on the inside of the main hitch brace. The forwardmost bottom connection point should align with the insertion point for the Category 1 hitch pin. The two vertical bolt holes on the top of the A-Arm should face forward.



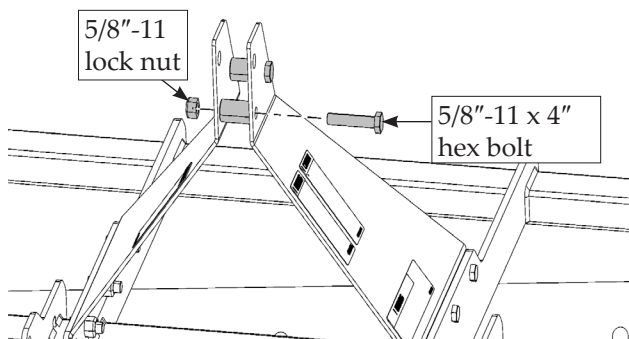
Align A-Arm with Dual Edge Grader frame.

5. Insert a 5/8"-11 x 2" bolt from the supplied hardware kit through each bolt hole. Secure each bolt with a 5/8"-11 nylon lock nut (**DO NOT** fully tighten the bolts and lock nuts at this time).
6. Repeat Step 4 and 5 for the second A-Arm.



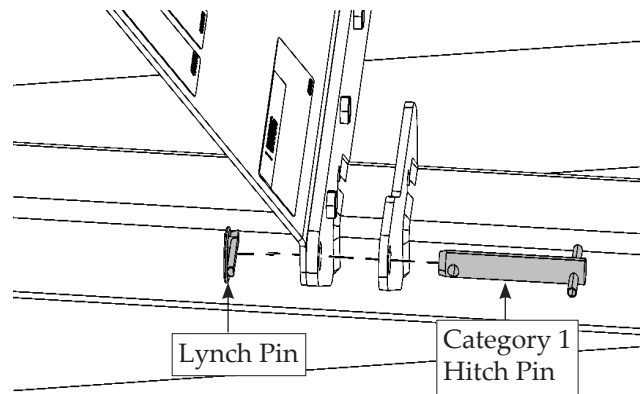
Loosely secure each A-Arm with bolt and lock nut.

7. Install the two top link bushings onto the A-Arms using the 5/8"-11 x 4" hex bolts and 5/8"-11 nylon lock nuts. Tighten lock nuts until they are snug tight.



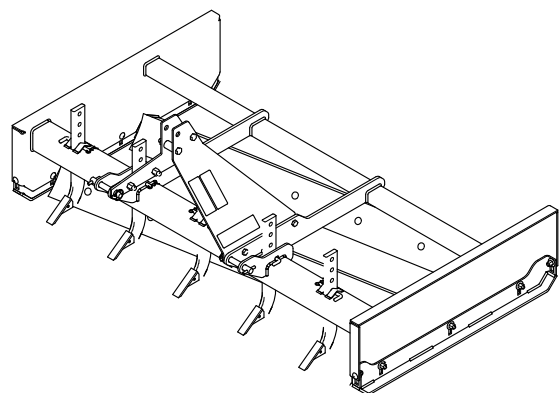
Align bushings and secure with hex bolts and lock nuts.

8. Tighten all lock nuts on the A-Arm bolts until they are snug tight.
9. Insert the Category 1 hitch pins through Dual Edge Grader main hitch braces and A-Arms.



Insert Category 1 Hitch Pin. Secure with Lynch Pin.

10. Check that the A-Arms are aligned with one another, then tighten all lock nuts to proper torque specifications. (See chart on Page 30)
11. The Dual Edge Grader is now fully assembled and ready for use.



Fully assembled Model 423117.

ASSEMBLY

Model 423122 and 423127 Assembly

The 423122 and 423127 model Tractor Dual Edge Grader ships with the A-Arms and Hitch Support Brace secured flat to the Dual Edge Grader frame. The bottom of each A-Arm is bolted to the main hitch brace. Follow the assembly steps below before attempting to use the implement.



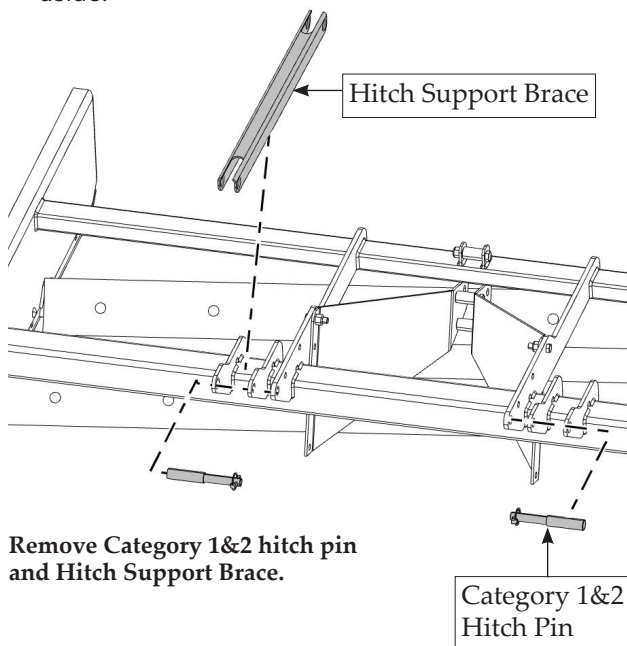
WARNING



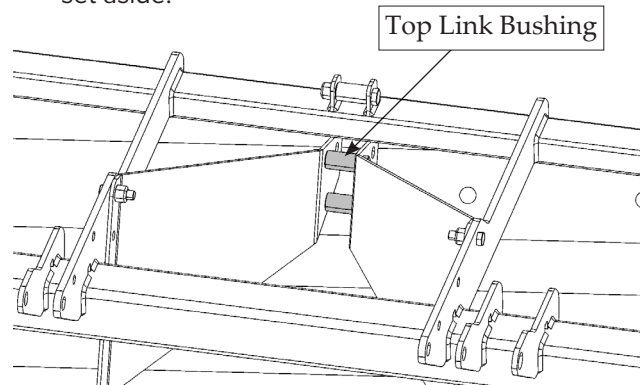
- Assemble implement on level ground.
- Wear appropriate personal protective gear.
- Watch for possible pinch points and crushing hazards.

NOTE: Scarifier shanks not shown in assembly diagrams.

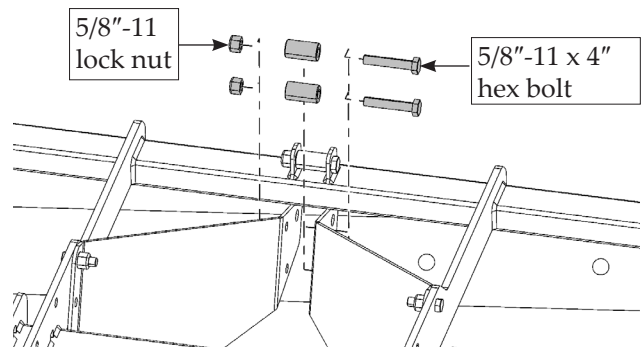
1. Cut the zip tie securing the Hitch Support Brace to Dual Edge Grader frame. Discard zip tie and cardboard padding.
2. Remove the Category 1 & 2 hitch pin securing the other end of the Hitch Support Brace. Set Hitch Support Brace and Category 1 & 2 hitch pin aside.
3. Remove the other Category 1 & 2 hitch pin and set aside.



4. The two top link bushings ship bolted to the top of the A-Arms. Loosen the 5/8"-11 x 4" hex bolt and 5/8"-11 nylon lock nut securing the bushings to the A-Arms. Remove the hardware and bushings and set aside.

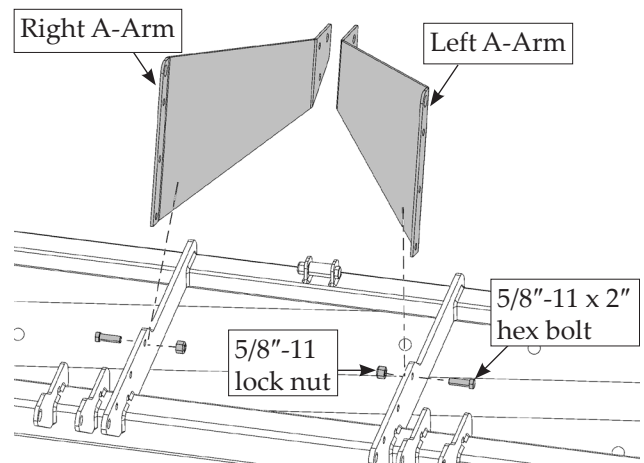


Top link bushings ship bolted to A-Arms.



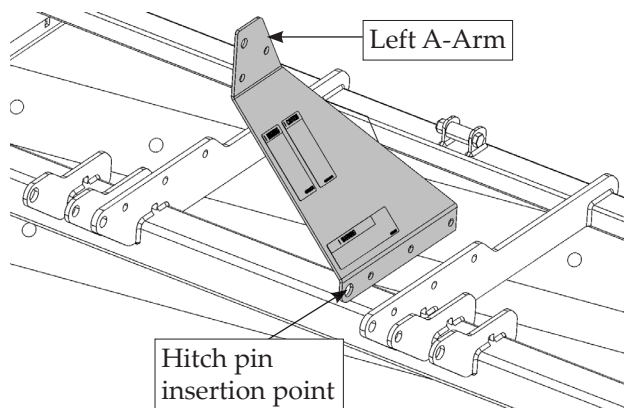
Remove lock nuts, hex bolts, and top link bushings.

5. Loosen and remove the two 5/8"-11 x 2" hex bolts securing A-Arms to Dual Edge Grader main hitch brace and lift each A-Arm away from the frame.



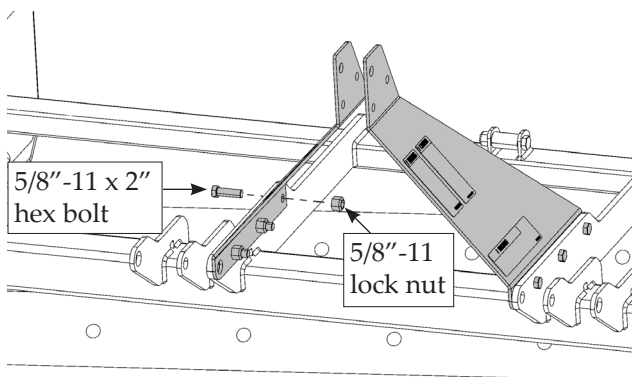
Remove lock nuts, hex bolts, and A-Arms.

- Each A-Arm connects to the Dual Edge Grader main hitch brace with three 5/8"-11 x 2" hex bolts secured with 5/8"-11 nylon lock nuts (six bolts and nuts total for both A-Arms). Align the bolt holes of one A-Arm with bolt holes on the inside of the main hitch brace. The forwardmost bottom connection point should align with the insertion point for the Category 1 & 2 hitch pin. The two vertical bolt holes on the top of the A-Arm should face forward.



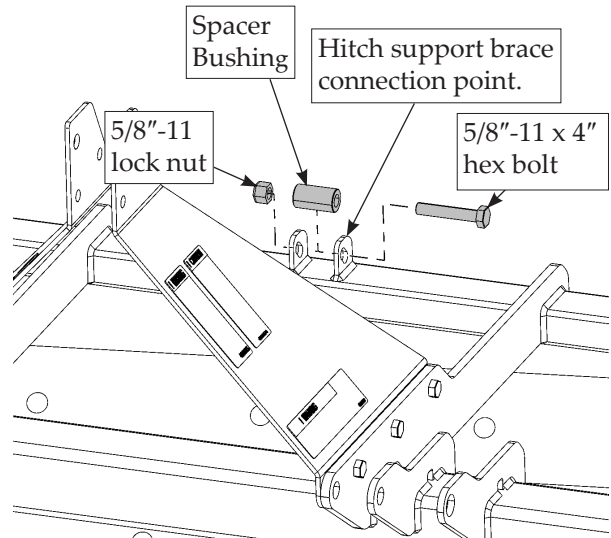
Align A-Arm with Dual Edge Grader frame.

- Insert a 5/8"-11 x 2" bolt from the supplied hardware kit through the three bolt holes. Secure each bolt with a 5/8"-11 nylon lock nut (**DO NOT** fully tighten the bolts and lock nuts at this time).
- Repeat Step 6 and 7 for the second A-Arm.



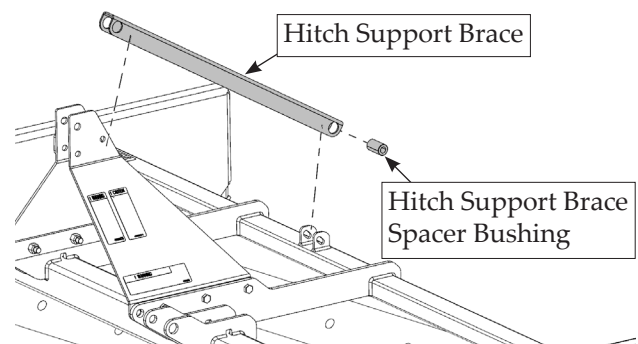
Loosely secure each A-Arm with bolt and lock nut.

- Remove the 5/8"-11 x 4" hex bolt and the spacer bushing from the hitch support brace attachment point located on the center support tube of the Dual Edge Grader frame and set hardware aside.



Remove lock nut, hex bolt, and spacer bushing.

- Align the spacer bushing from Step 9 with the bolt holes on one end of the Hitch Support Brace.
- Align the bolt holes of the Hitch Support Brace and spacer bushing with the attachment point located on the center support tube of the Dual Edge Grader frame. (Ensure the curved edge of the Hitch Support Brace faces down).



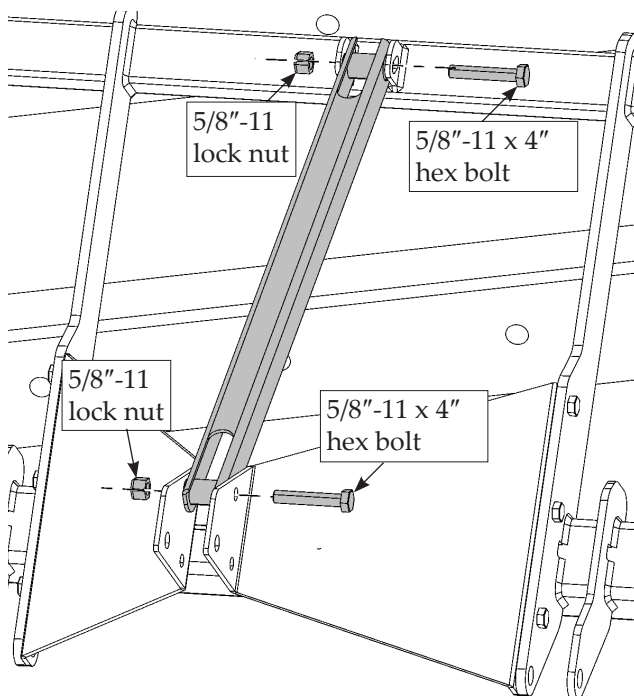
Align spacer bushing with Hitch Support Brace.

- Insert a 5/8"-11 x 4" hex bolt through the hitch support brace attachment point, Hitch Support Brace, and spacer bushing. Secure with 5/8"-11 lock nut (**DO NOT** fully tighten the bolt and lock nut at this time).
- Align an A-Arm spacer bushing from Step 4 with the bolt holes on the other end of the Hitch Support Brace.

ASSEMBLY

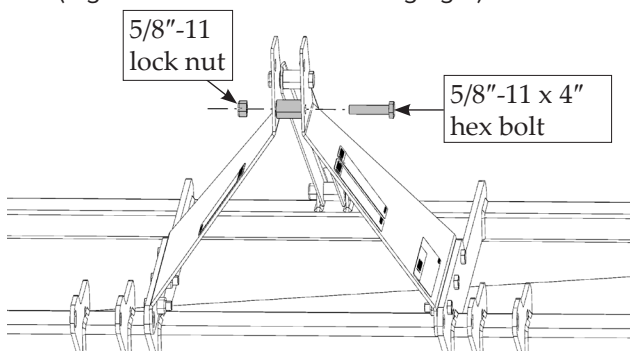
Model 423122 and 423127 Assembly Continued

14. Align the bolt holes of the Hitch Support Brace and spacer bushing with A-Arm bolt holes, then insert a 5/8"-11 x 4" hex bolt through the A-Arm, Hitch Support Brace, and spacer bushing. Secure the bolt with 5/8"-11 nylon lock nut. (**DO NOT** fully tighten the bolt and lock nut at this time).



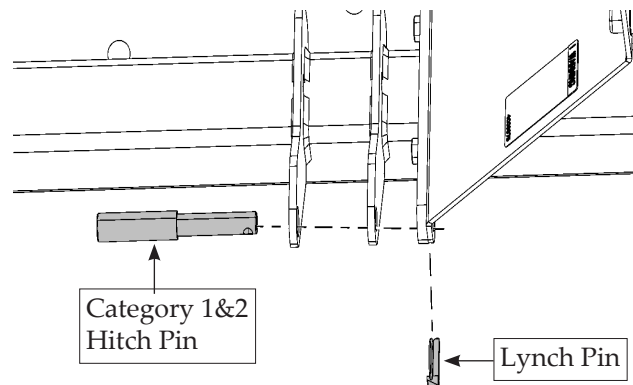
Secure Hitch Support Brace and spacer bushings with hex bolt and lock nuts.

15. Install the second spacer bushing from Step 4 into the lower bolt holes at the top of the A-Arms. This spacer bushing serves as a quick hitch attachment point and connects to the A-Arms with a 5/8"-11 x 4" hex bolt secured with a 5/8"-11 nylon lock nut (Tighten lock nut until it is snug tight).



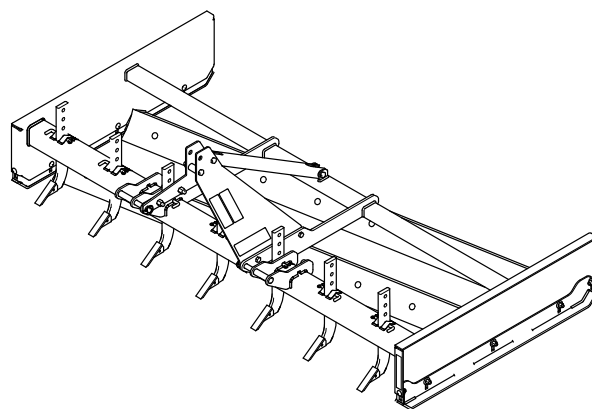
Align bushing and secure with hex bolt and lock nut.

16. Tighten all lock nuts on the Hitch Support Brace and A-Arm bolts until they are snug tight.
17. Insert the Category 1&2 hitch pins through Dual Edge Grader frame and A-Arms and secure with lynch pins.



Insert Category 1&2 Hitch Pin. Secure with Lynch Pin.

18. Check that the A-Arms are aligned with one another, then tighten all lock nuts to proper torque specifications. (See chart on Page 30)
19. The Dual Edge Grader is now fully assembled and ready for use.



Fully assembled Model 423127.

Attaching to Tractor 3-Point Hitch



WARNING



Avoid serious injury or death!

When implement is attached:

- Put transmission in **PARK** and engage parking brake as applicable.
- Check full range of hitch for interference or binding.
- **DO NOT** stand between tractor and implement.

1. Back up tractor to Dual Edge Grader with hitch points approximately in alignment.
2. Engage tractor parking brake and/or place transmission in "PARK".
3. Shut off tractor engine and remove key.
4. Remove tractor center link mounting hardware, and the hitch pins from both sides of the implement.
5. Install tractor draft links on hitch pins. Secure with lynch pins. (Make sure to use correct CAT 1 or CAT 2 placement on 423122 and 423127 model.)



Attach tractor draft link to hitch pin.

6. Align center link with upper hole in Dual Edge Grader A-arms and install center link mounting hardware.



Install center link and mounting hardware.

7. Start tractor engine.
8. Slowly pull hitch control lever to raise Dual Edge Grader. Check for interference.
9. Lower Dual Edge Grader and adjust tractor center link until implement is level with the ground when in the down position.



Ensure implement is level when lowered to the ground.
NOTE: Scarifier shanks not shown.

ATTACHING

Attaching to Tractor Quick Coupler Hitch



IMPORTANT



Avoid machine damage.

- **DO NOT** remove the sleeve and 5/8" bolt in the lower mast hole, as they provide an attachment point for a Category 1 quick hitch.

1. Install quick hitch bushings on hitch pins.



Install bushings before attaching to quick hitch.

2. Slowly push hitch control lever to lower hitch until quick hitch hooks are lower than Dual Edge Grader hitch pins.



Lower quick hitch hooks.

3. Back up tractor to Dual Edge Grader hitch.
4. Raise hitch high enough to engage Dual Edge Grader hitch pins in hooks.



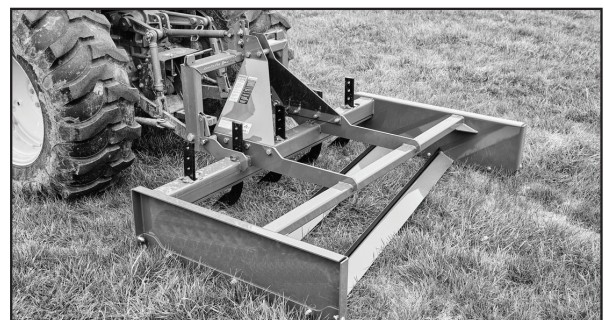
Raise quick hitch and engage hitch pins.

5. Engage tractor parking brake and/or place transmission in "PARK". Turn off Tractor and remove key.
6. Check that quick hitch is properly engaged on Dual Edge Grader hitch pins and top bushing, then lower quick hitch handles to lock position.



Lower handles to lock quick hitch.

7. Start tractor engine.
8. Slowly pull hitch control lever to raise Dual Edge Grader. Check for interference.
9. Lower Dual Edge Grader and adjust tractor center link until implement is level with the ground when in the down position.



Ensure implement is level when lowered to the ground.

Detaching from Tractor 3-Point Hitch

1. Lower Dual Edge Grader to the ground, then set tractor parking brake and shut off tractor engine.
2. Remove lynch pins from hitch pints, then detach draft links. Re-install pins on unit after detaching draft links.
3. Disconnect center link from A-arms. Position tractor center link in transport location. Reinstall center link pin/hardware.
4. Start tractor engine, disengage parking brake and carefully drive tractor away.

Detaching from Tractor Quick Coupler Hitch

1. Shut off tractor engine, set parking brake, then raise both handles on quick hitch to unlocked position.
2. Start tractor engine.
3. Lower Dual Edge Grader to the ground. Continue lowering quick hitch until hooks clear Dual Edge Grader hitch pins.
4. Disengage parking brake and carefully drive tractor away.

OPERATION

The operator is responsible for safely operating the equipment and must be properly trained. Before use, operators should familiarize themselves with the equipment, the tractor, and safety practices, as outlined in the safety rules and decals on pages 2 through 8.

The Tractor Dual Edge Grader is designed for scarifying, scraping, leveling, and grading.



WARNING



Avoid serious injury or death!

- **Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in “locked up” position at all times.**
- **DO NOT allow children or untrained persons to operate the equipment.**
- **Keep bystanders away from equipment.**
- **Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.**



CAUTION



Avoid serious injury or machine damage.

- **Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.**
- **Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.**

Preliminary Operation Checklist

Operators should verify the following before using the Tractor Dual Edge Grader.

1. Operator has reviewed the entire Operation and Maintenance Manual.
2. Overall condition good (i.e. paint, welds).
3. Tractor ROPS or ROPS Cab and seat belt must be in good working condition. Operators must keep seat belt securely fastened during operation.
4. Dual Edge Grader is completely assembled. (pp. 9-15)
5. All fasteners torqued to specifications in torque chart. (p. 30)
6. All safety and instruction labels in place and legible. (pp. 6-8)
7. Implement is correctly and securely attached to tractor. (pp. 16-17)

Adjusting Implement Tilt

1. Level the front and rear of the Dual Edge Grader by adjusting the tractor's 3-point top link (See Figure 3).
 - a. Shortening the top link raises the rear of the Dual Edge Grader and lowers the front.
 - b. Lengthening the top link lowers the rear of the Dual Edge Grader and raises the front.
2. Level the right and left side of the Dual Edge Grader by shortening or lengthening the tractor's 3-point draft arms.

NOTE: For effective grading, the most common position is level both front to back and side to side. Experience will help the operator find the optimal setting to achieve desired results.



Figure 3: Use tractor top link to tilt front and rear of Dual Edge Grader.

Scarifying

1. Place the scarifier shanks in position with shank points facing toward the tractor (See Figure 4).
2. Adjust scarifier depth with 3 or 4 position pin settings depending on model. (423109 has 3 settings. All other models have 4 settings.)
3. Lower the Dual Edge Grader and drive tractor forward to begin scarifying operation.

NOTE: For aggressive scarifying, shorten the tractor top link to tilt the unit forward and engage the scarifying shanks. To scarify and grade simultaneously, lengthen the top link to ensure proper ground clearance with the rear blade.



Figure 4: Place shank points down and forward to scarify.

Scraping and Leveling

1. Raise or remove the scarifier shanks.
2. Lower the Dual Edge Grader and drive forward to move material.
 - a. Grade above plane by raising tractor draft arms and setting draft control on tractor for consistency.
 - b. Grade below plane by adjusting skid shoes (See **ADJUSTING SKID SHOES** section).

NOTE: When the top link is adjusted properly, both the front and rear grading blades should engage the ground and/or material being leveled.

3. Adjust the tractor top link to change the blade tilt and achieve the correct slope.

4. To spread large piles of material:
 - a. Raise the Dual Edge Grader and back over the pile.
 - b. Lower Dual Edge Grader and drive forward.
 - c. Once material is moved to desired location, begin raising the Dual Edge Grader to leave material behind.
 - d. Make final leveling passes once material is spread.

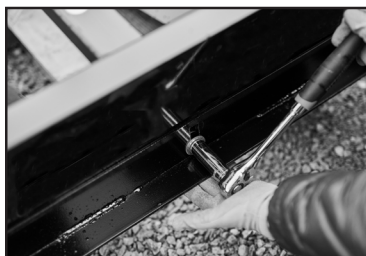
NOTE: Top link adjustment for loose or previously scarified material will differ from adjustment for hard or compacted material.

Adjusting Skid Shoes

1. Safely place the Dual Edge Grader on wooden blocks or other sufficient supports capable of sustaining implement weight.



2. Use a 3/4" wrench to loosen the five 1/2" nylon lock nuts on each skid shoe.



3. Raise or lower skid shoe to desired height. Use a tape measure to ensure front and rear of skid shoe is level.
 - a. Crown by adjusting skid shoes low on one side and higher on the other.
4. Tighten all nuts to correct torque specifications (See p. 30).

NOTE: Crowning may also be achieved by adjusting the tractor's 3-point draft links.

NOTE: Adjusting skid shoes above the bottom of the grading blade allows for a more aggressive cut.

OPERATION

Cleaning

AFTER EACH USE

1. Remove large debris such as dirt clumps, grass, and crop residue from the implement.
2. Inspect the implement for worn or damaged parts. Replace parts as needed.
3. Replace any safety labels that are missing or illegible. Safety labels are available from authorized Blue Diamond® Attachments dealers.

PERIODICALLY OR BEFORE EXTENDED STORAGE

1. Remove large debris such as dirt clumps, grass, and crop residue from the implement.
2. Clean the implement using a low-pressure water spray.
 - a. Be careful when spraying near edges of safety labels as water spray can peel label off surface.
 - b. Be careful when spraying near chipped or scratched paint as water spray can lift paint.
 - c. If pressure washer is used, follow the advice of the pressure washer manufacturer.
3. Inspect the implement for worn or damaged parts. Replace parts as needed.
4. Sand down scratches and the edges of areas of missing paint and coat with spray paint of matching color.
5. Replace any safety labels that are missing or illegible. Safety labels are available from authorized Blue Diamond® Attachments dealers.

Storage



WARNING



Avoid serious injury or death!

- **Always use a tractor to position the implement for storage. Never attempt to move the implement by hand.**
- **Securely block up the implement on wooden blocks or other sufficient supports capable of sustaining implement weight.**
- **Keep children, bystanders, and livestock away from the storage area.**

1. Park the implement on a dry, level surface shielded from atmospheric agents.

Problem	Possible Cause	Possible Remedy
Material building up on first blade.	Unit tilted forward.	Lengthen top link.
Material not being graded by first blade/building up on second blade.	Unit tilted back.	Shorten top link.
Unit tips up in the back when using scarifier shanks.	Front down pressure caused by scarifier shanks.	Lengthen top link more than usual when using scarifier shanks and leveling at same time.
Material spread is not level.	Skid shoes not adjusted evenly.	Measure skid shoe position on each side and make even.
Material/rock getting bound up in the front.	Scarifier shanks not allowing adequate material flow.	When leveling or spreading large media, it may be necessary to raise or remove the scarifier shanks.

MAINTENANCE

This section is intended for operators with basic mechanical skills. Block up the Dual Edge Grader for service, but note that working underneath the implement is not required. Operators should read and follow the safety information in this manual. For service assistance, contact an authorized Blue Diamond® Attachments dealer.



WARNING



Avoid serious injury or death!

- **Never go underneath equipment or between movable parts, even if the tractor engine is off. Hydraulic or mechanical failures, or movement of control levers, can cause unexpected drops or movement, resulting in severe injury or death.**
- **Service work does not require going underneath.**
- **Read the Operation and Maintenance Manual for service instructions or have an authorized dealer perform service.**
- **Keep all persons away from the operator control area during adjustments or maintenance.**
- **Before dismounting tractor or performing service, disengage power, lower 3-point hitch and raised components, release hydraulic pressure, set the parking brake, stop the engine, remove the key, and unfasten the seat belt.**



CAUTION



Avoid serious injury.

- **Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.**

Blocking Up the Dual Edge Grader

1. Place two 4" x 4" wooden blocks or other sufficient supports capable of sustaining implement weight under Dual Edge Grader cutting blades (See Figure 5).
2. DO NOT block the Dual Edge Grader any higher than needed for removing the scarifier shanks or cutting edges.
3. Use tractor to lower Dual Edge Grader to rest securely on supports.



Figure 5: Dual Edge Grader blocked up on 4" x 4" wooden supports.

Removing and Replacing Scarifier Shanks

Scarifier shanks have three or four operating positions depending on the model. They may be removed if scarifying action is not needed.

1. Follow **BLOCKING UP DUAL EDGE GRADER** instructions.
2. Remove clip pin (1) and "L" pin (2) (See Figure 6).
3. Remove scarifier shank (3) or adjust operating position.
4. Replace "L" pin (2) and clip pin (1).

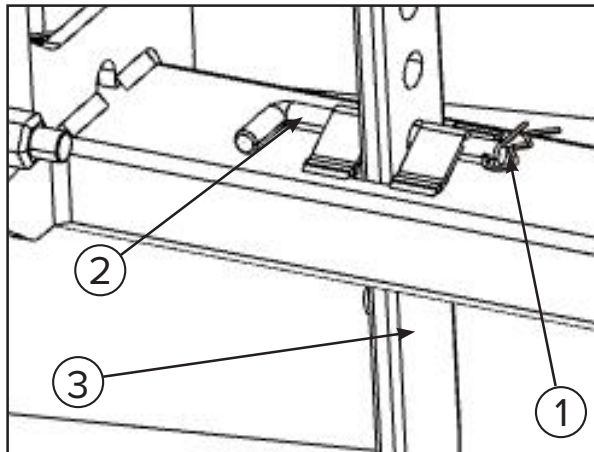
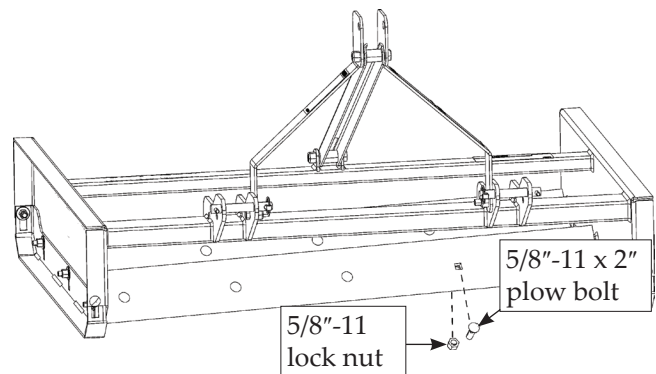


Figure 6: Remove clip pin (1) and "L" pin (2) to adjust scarifier shank.

Rotating and Replacing Cutting Blades

All Tractor Dual Edge Grader models use two replaceable 3/8" x 6" cutting edges, which are also reversible for extended wear.

1. Follow **BLOCKING UP DUAL EDGE GRADER** instructions.
2. Use a 5/16" wrench to remove each 5/8"-11 nylon lock nut and 5/8"-11 x 2" plow bolt securing the cutting edge to the Dual Edge Grader frame.

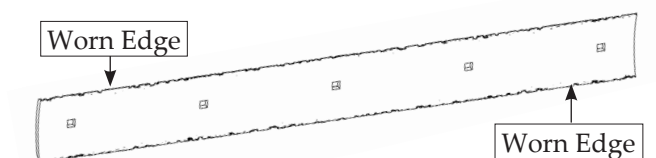


Remove bolts and lock nuts to reverse/replace cutting edge. Note: Model shown without scarifier shanks.

3. Rotate cutting edge 180° to use new edge, or replace if both edges are worn.



One worn edge: Rotate blade 180° to use new edge.



Two worn edges: Replace blade.

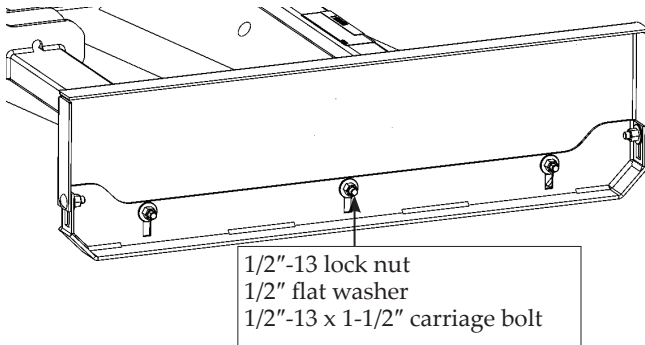
4. Attach cutting edge to Dual Edge Grader and secure with plow bolts and hex nuts removed during Step 2.
5. Torque plow bolts to correct torque specification (See p. 30).

MAINTENANCE

Rotating and Replacing Skid Shoes

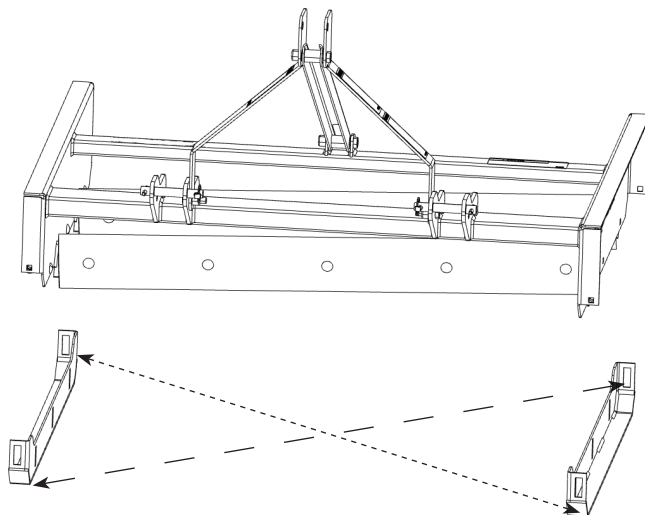
All Tractor Dual Edge Grader models come equipped with replaceable skid shoes that can be rotated for extended wear.

1. Follow **BLOCKING UP DUAL EDGE GRADER** instructions.
2. Use a 3/4" wrench to remove each 1/2"-13 lock nut, 1/2" flat washer, and 1/2"-13 x 1 1/2" carriage bolt securing the skid shoe to the Dual Edge Grader frame, then remove the skid shoe.



Remove hex nuts, flat washers, and carriage bolts.

3. Install new skid shoe or rotate 180° and reinstall on the opposite side from which it was removed.



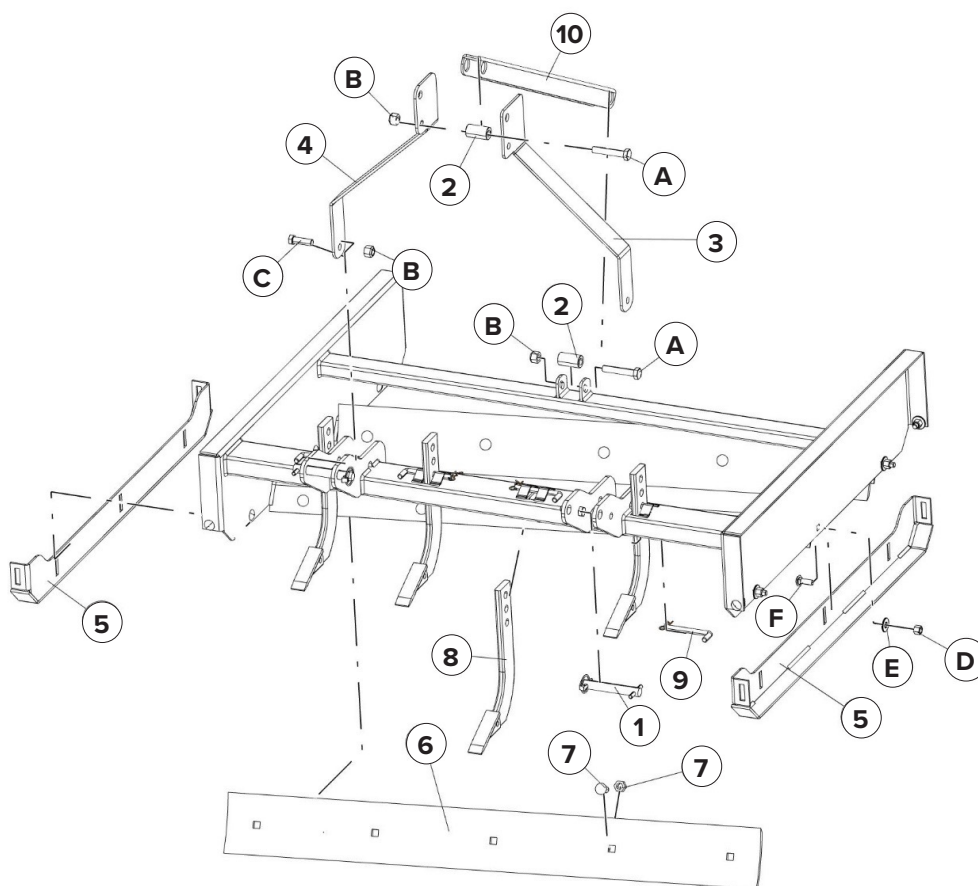
Rotate skid shoes 180° and install on opposite side.

4. Reinstall the carriage bolts with threads facing outward.
5. Secure each bolt with flat washer and lock nut. Tighten all bolts to correct torque specifications (See p. 30)

SPECIFICATIONS

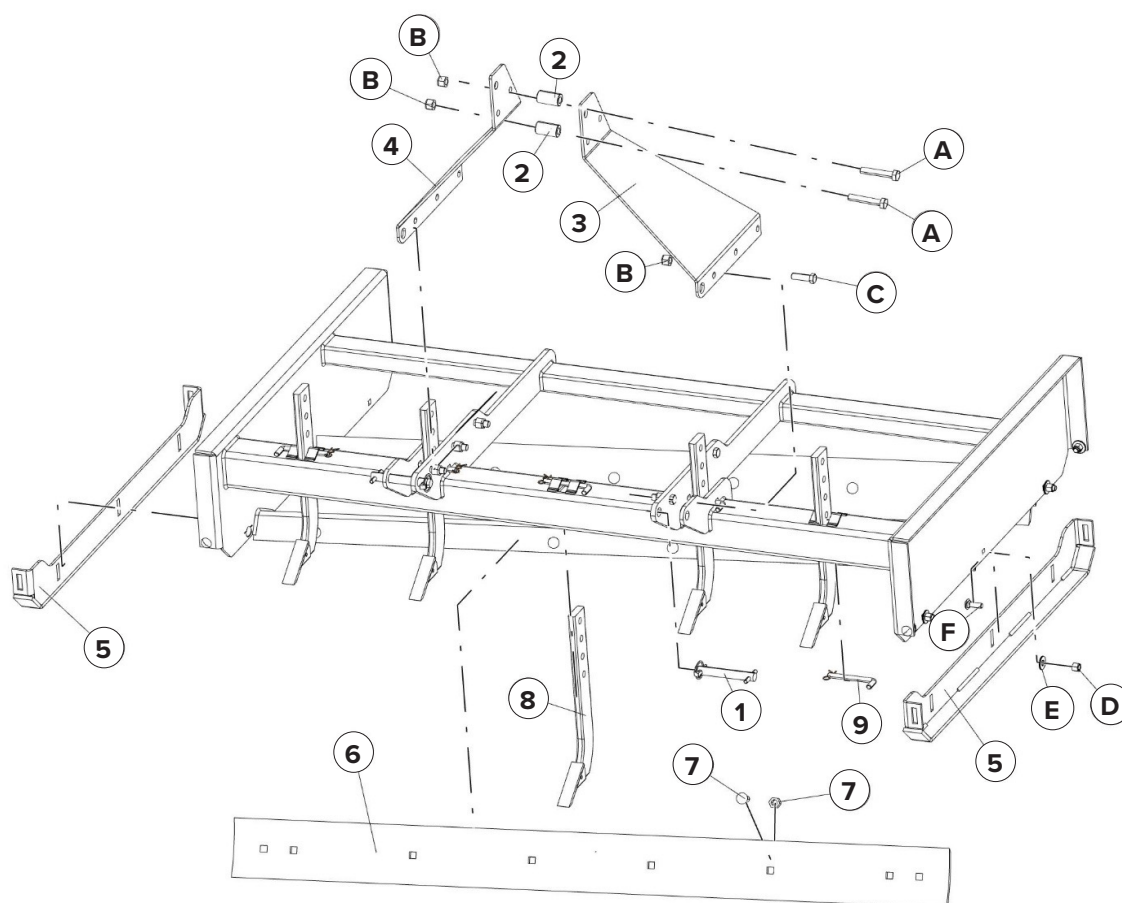
Model	423109	423112	423117	423122	423127
Dimensions					
Working Width	54"	60"	72"	84"	96"
Overall Width	58"	65"	76"	88"	100"
Overall Height	33"	35"			
Overall Length	48"			54"	
Height to Hitch Pins	14"	16"			
Weight					
Operating	316 lb	484 lb	528 lb	610 lb	653 lb
Tractor Requirements					
Engine HP	18-30 HP	25-50 HP	35-50 HP	40-90 HP	
Construction					
Side Panel Length	44"			50"	
Side Panel Height	12"	14.5"			
Side Panel Thickness	3/16" w/ Formed Edges	1/4" w/ Formed Edges			
Skid Shoe Thickness	1/4"	3/8"			
Main (Front) Beam	2" X 4" X 1/4" Tubing	4" X 4" X 1/4" Tubing			
Scarifier Shank					
Type	Heat Treated 3 Position	Heat Treated 4 Position			
Quantity	4	4	5	6	7
Scarifier Depth Range	0", -1.5", -3"	2", 0", -2", -4"			
Cutting Edges					
Quantity	2				
Features	Reversible and Replaceable, 3/8" X 6" High Carbon Heat Treated Blades				
Placement	Two Parallel Grading Blades Positioned at a 10° Angle				
Grading Depth					
Skid Shoe Adjustment	Infinitely adjustable blade depth from 0 to -2.5" via skid shoes				
Hitch					
Style	Clevis w/ Pin				
Category	Cat 1 Limited	Cat 1		Cat 1 & 2	
Quick Hitch Compatible	Yes	Yes		Yes Cat 1 & 2	

PARTS



DUAL EDGE GRADER 423109

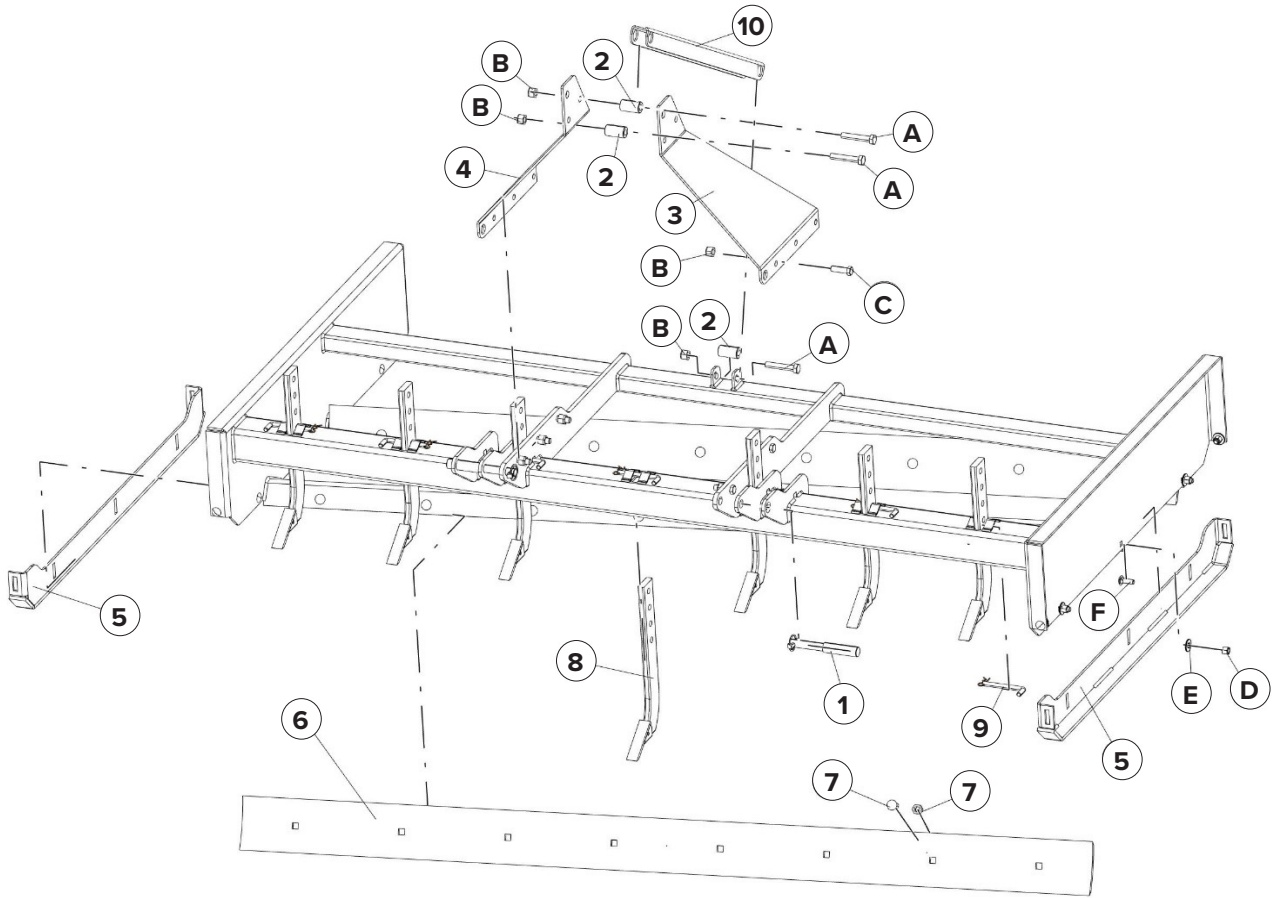
Item#	Service Number	QTY	Description
1	503377	2	Cat 1 Hitch Pin w/Lynch Clip
2	523003	2	Spacer Bushing
3	523007	1	LH A-Arm
4	523008	1	RH A-Arm
5	523010	2	Skid Shoe
6	523011	2	54" Cutting Edge
7	523017	2	Bolt Set for Cutting Edge (6pk)
8	523006	4	3-hole Scarifier
9	523018	4	Scarifier Pin 1/2" x 4" L Pin w/ Clip
10	523009	1	Hitch Support
A	—	2	5/8"-11 x 4" GR5 Hex Bolt
B	—	4	5/8"-11 Nylon Lock Nut
C	—	2	5/8"-11 x 2" GR5 Hex Bolt
D	—	10	1/2"-13 Nylon Lock Nut
E	—	10	1/2" Flat Washer
F	—	10	1/2"-13 x 1-1/2" GR5 Carriage Bolt



DUAL EDGE GRADER 423112 and 423117

Item#	Service Number	QTY	Description
1	503377	2	Cat 1 Hitch Pin w/Lynch Clip
2	523003	2	Spacer Bushing
3	523012	1	LH A-Arm
4	523013	1	RH A-Arm
5	523014	2	Skid Shoe
6	523019	2 (423112)	60" Cutting Edge
6	523020	2 (423117)	72" Cutting Edge
7	523017	2	Bolt Set for Cutting Edge (6pk)
8	523005	4 (423112), 5 (423117)	4-hole Scarifier
9	523018	4 (423112), 5 (423117)	Scarifier Pin 1/2" x 4" L Pin w/ Clip
A	—	2	5/8"-11 x 4" GR5 Hex Bolt
B	—	8	5/8"-11 Nylon Lock Nut
C	—	6	5/8"-11 x 2" GR5 Hex Bolt
D	—	10	1/2"-13 Nylon Lock Nut
E	—	10	1/2" Flat Washer
F	—	10	1/2"-13 x 1-1/2" GR5 Carriage Bolt

PARTS



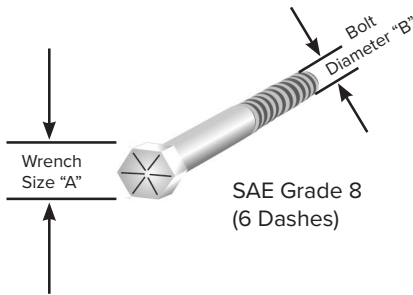
DUAL EDGE GRADER 423122 and 423127

Item#	Service Number	QTY	Description
1	523016	2	Cat 1 & 2 Step Hitch Pin w/ Lynch Clip
2	523003	2	Spacer Bushing
3	523012	1	LH A-Arm
4	523013	1	RH A-Arm
5	523015	2	Skid Shoe
6	523021	2 (423122)	84" Cutting Edge
6	523022	2 (423127)	96" Cutting Edge
7	523017	3	Bolt Set for Cutting Edge (6pk)
8	523005	6 (423122), 7 (423127)	4-hole Scarifier
9	523018	6 (423122), 7 (423127)	Scarifier Pin 1/2" x 4" L Pin w/ Clip
10	523009	1	Hitch Support
A	—	3	5/8"-11 x 4" GR5 Hex Bolt
B	—	9	5/8"-11 Nylon Lock Nut
C	—	6	5/8"-11 x 2" GR5 Hex Bolt
D	—	10	1/2"-13 Nylon Lock Nut
E	—	10	1/2" Flat Washer
F	—	10	1/2"-13 x 1-1/2" GR5 Carriage Bolt

TORQUE SPECIFICATIONS

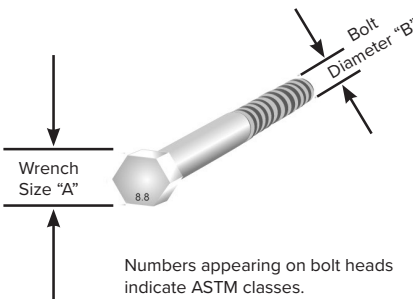
Proper torque for American fasteners used on manufactured implement.
Recommended Torque in Foot Pounds (Newton Meters).*

AMERICAN Bolt Head Markings



WRENCH SIZE(IN.) "A"	BOLT DIAMETER (IN.) "B" AND THREAD SIZE	SAE GRADE 2	SAE GRADE 5	SAE GRADE 8
7/16	1/4 - 20 UNC	6 (7)	8 (11)	12 (16)
7/16	1/4 - 24 UNF	6 (8)	10 (13)	14 (18)
1/2	5/16 - 18 UNC	11 (15)	17 (23)	25 (33)
1/2	5/16 - 24 UNF	13 (17)	19 (26)	27 (37)
9/16	3/8 - 16 UNC	20 (27)	31 (42)	44 (60)
9/16	3/8 - 24 UNF	23 (31)	35 (47)	49 (66)
5/8	7/16 - 14 UNC	32 (43)	49 (66)	70 (95)
5/8	7/16 - 20 UNF	36 (49)	55 (75)	78 (106)
3/4	1/2 - 13 UNC	49 (66)	76 (103)	106 (144)
3/4	1/2 - 20 UNF	55 (75)	85 (115)	120 (163)
7/8	9/16 - 12 UNC	70 (95)	109 (148)	153 (207)
7/8	9/16 - 18 UNF	79 (107)	122 (165)	172 (233)
15/16	5/8 - 11 UNC	97 (131)	150 (203)	212 (287)
15/16	5/8 - 18 UNF	110 (149)	170 (230)	240 (325)
1-1/8	3/4 - 10 UNC	144(195)	266 (360)	376 (509)
1-1/8	3/4 - 16 UNF	192 (260)	297 (406)	420 (569)
1-5/16	7/8 - 9 UNC	166 (225)	430 (583)	606 (821)
1-5/16	7/8 - 14 UNF	184 (249)	474 (642)	668 (905)
1-1/2	1 - 8 UNC	250 (339)	644 (873)	909 (1232)
1-1/2	1 - 12 UNF	274 (371)	705 (955)	995 (1348)
1-1/2	1-14 UNF	280 (379)	721 (977)	1019 (1381)
1-11/16	1-1/8 - 7 UNC	354 (480)	795 (1077)	1288 (1745)
1-11/16	1-1/8 - 12 UNF	397 (538)	890 (1206)	1444 (1957)
1-7/8	1-1/4 - 7 UNC	500 (678)	1120 (1518)	1817 (2462)
1-7/8	1-1/4 - 12 UNF	553 (749)	1241 (1682)	2013 (2728)
2-1/16	1-3/8 - 6 UNC	655 (887)	1470 (1992)	2382 (3228)
2-1/16	1-3/8 - 12 UNF	746 (1011)	1672 (2266)	2712 (3675)
2-1/4	1-1/2 - 6 UNC	870 (1179)	1950 (2642)	3161 (4283)
2-1/4	1-1/2 - 12 UNF	979 (1327)	2194 (2973)	3557 (4820)

METRIC



Proper torque for metric fasteners used on manufacturer implement.
Recommended Torque in Foot Pounds (Newton Meters).*

WRENCH SIZE (mm) "A"	BOLT DIA. (mm) "B"	ASTM 4.6	ASTM 8.8	ASTM 9.8	ASTM 10.9
8	5	1.8 (2.4)		5.1 (6.9)	6.5 (8.8)
10	6	3 (4)		8.7 (12)	11.1 (15)
13	8	7.3 (10)		21.1 (29)	27 (37)
16	10	14.5 (20)		42 (57)	53 (72)
18	12	25 (34)	74 (100)	73 (99)	93 (126)
21	14	40 (54)	118 (160)	116 (157)	148 (201)
24	16	62 (84)	167 (226)	181 (245)	230 (312)
30	20	122 (165)	325 (440)		449 (608)
33	22		443 (600)		611 (828)
36	24	211 (286)	563 (763)		778 (1054)
31	27		821 (1112)		138(1542)
46	30	418 (566)	1119 (1516)		1547(2096)

*Use 75% of the specified torque value for plated fasteners. Use 85% of the specified torque values for lubricated fasteners.



MANUFACTURER'S LIMITED WARRANTY

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

BLUE DIAMOND® ATTACHMENTS liability for any defect with respect to accepted goods shall be limited to repairing the goods at a BLUE DIAMOND® ATTACHMENTS designated location or at an authorized dealer location, or replacing them, as BLUE DIAMOND® ATTACHMENTS shall elect. The above shall be in accordance with BLUE DIAMOND® ATTACHMENTS warranty adjustment policies. BLUE DIAMOND® ATTACHMENTS obligation shall terminate twenty-four (24) months for the Tractor Dual Edge Grader after the delivery of the goods to original purchaser.

This warrant shall not apply to any machine or attachment which shall have been repaired or altered outside the BLUE DIAMOND® ATTACHMENTS factory or authorized BLUE DIAMOND® ATTACHMENTS dealership or in any way so as in BLUE DIAMOND® ATTACHMENTS judgment to affect its ability or reliability, nor which has been subject to misuse, negligence or accident beyond the company recommended machine rated capacity.

WARRANTY CLAIM

To submit a warranty claim, a return authorization from BLUE DIAMOND® ATTACHMENTS must be obtained. The failed part may then be returned. 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 recalls, and pickup/delivery charges are the customers' responsibility.

EXCLUSIONS OF WARRANTY

Except as otherwise expressly stated herein, BLUE DIAMOND® ATTACHMENTS 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 ARE FIT FOR ANY PARTICULAR PURPOSE. BLUE DIAMOND® ATTACHMENTS shall not be liable for incidental or consequential damages for any breach of warranty, including but not limited to, inconvenience, rental or replacement equipment, loss of profits or other commercial loss. Upon purchase, the buyer assumes all liability for all personal injury and property resulting from the handling, possession, or use of the goods by the buyer.

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

This warranty supersedes any previous documents.

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





QUALITY | DEPENDABILITY | INTEGRITY

Blue Diamond® Attachments

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