

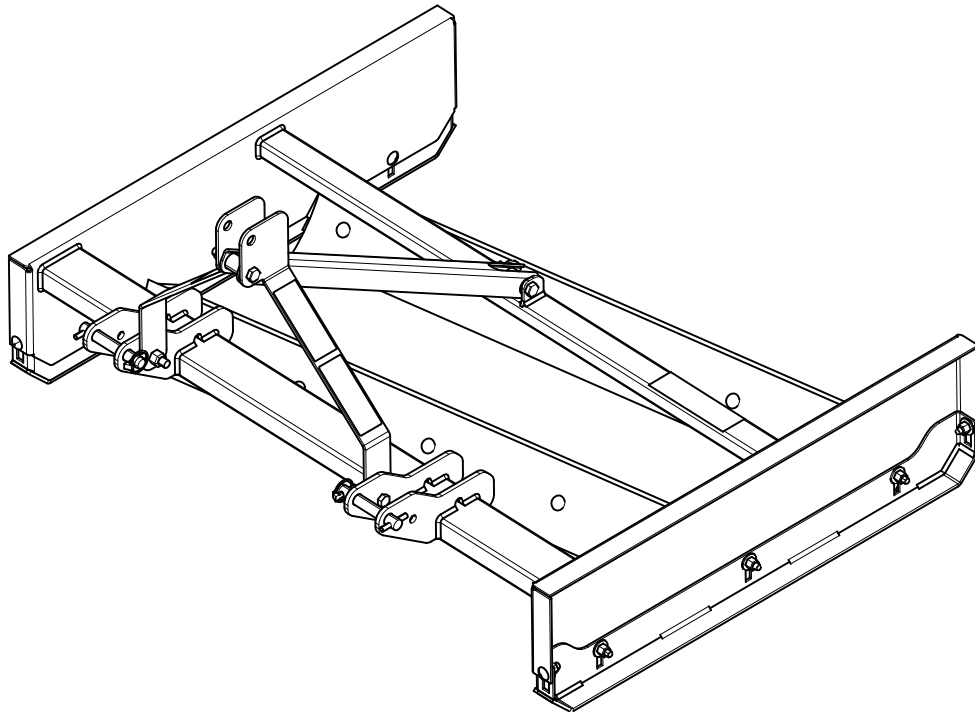


1900 Parrish Drive SE
Rome GA 30361

LPX54

LAND PLANE

MANUAL



Introduction

Thank you for purchasing the Summit Tractors Land Plane. With proper use and maintenance, it will provide years of reliable service. Read this manual carefully to ensure safe and correct operation—improper use may cause injury or equipment damage.

Intended Use

The Summit Tractors Land Plane is designed to level and grade surfaces, and fill potholes using a 3-point hitch tractor. It is intended solely for the purposes outlined in this manual.

Using this Manual

This manual provides detailed guidelines for the safe assembly, operation, adjustment, troubleshooting, and maintenance of the Summit Tractors Land Plane. It is intended to ensure optimal performance, minimize downtime, and enhance operator safety by identifying potential hazards and emphasizing accident prevention.

All users must read and understand the information in this manual prior to operation. **DO NOT** allow anyone who has not fully read and understood this manual to operate or maintain the equipment. Failure to follow the procedures described in this manual could result in equipment damage or physical injury or death to you or bystanders.

Please keep this manual with the machine for future reference, as it is considered part of your machine. The lifespan of any machine depends on the care it receives. Refer to and review the manual often for preventative maintenance.

The information contained within this manual was current at the time of printing. Some parts or information are subject to change to ensure the best performance of the machine. The manufacturer reserves the right to make changes in materials or design of the product and its manual at any time without notice.

Throughout this manual, references are made to right and left directions. These are determined by standing behind the tractor and facing the direction of forward travel.

Owner Assistance

Use only genuine service parts available from an authorized dealer. **DO NOT** modify the implement or use with attachments other than the options and accessories specified in this manual.

Contact an authorized dealer if service or repair parts are needed. Authorized dealers have trained personnel, repair parts, and equipment needed to service this implement.

For quick reference and prompt service, record the model number and any other identifying information, such as a dealer-applied serial number or UPC, in the space provided below, and then again in the Warranty section on page 23. These numbers will be needed when ordering service parts.

There may be times when circumstances not covered in the manual occur. At those times, or if this manual's instructions or safety requirements are not understood, please contact an authorized dealer.

Dealer Contact Information

Name

Address

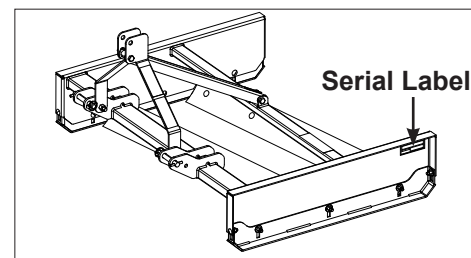
Phone

Email

Purchase Date

Serial Number / UPC

Serial Label Location



Serial number label located at top rear corner of left side endplate.

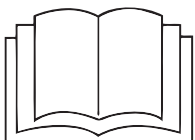
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Customer Support:

International Tractors
USA Corporation
1900 Parrish Drive SE
Rome, GA 30161

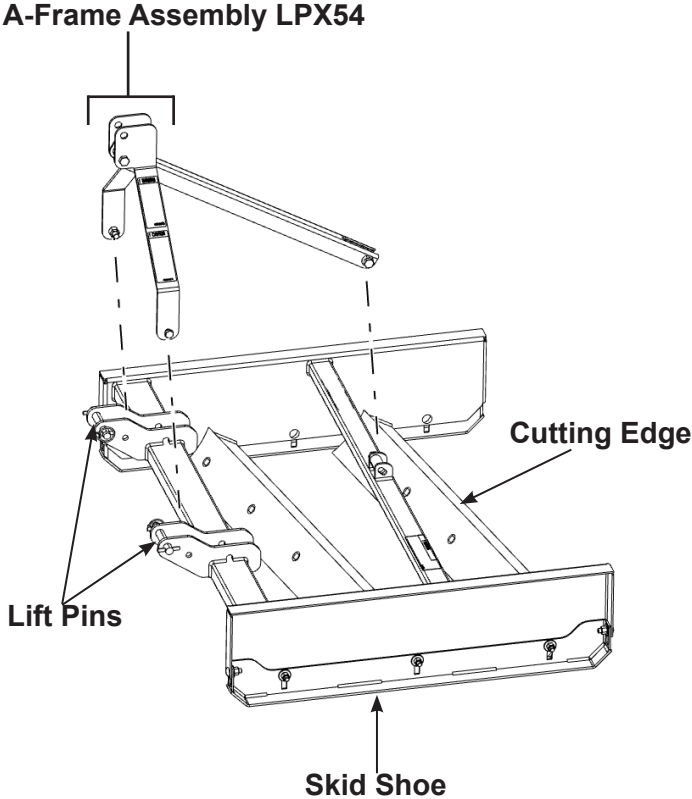
770-209-3390
support@summittractors.com



This Operator's Manual should be regarded as part of the machine. Suppliers of both new and second-hand machines must supply this manual with the machine. Replacement manuals are available from authorized dealers or Summit Tractors Customer Support.

PRODUCT DESCRIPTION

The Summit Tractors Land Plane 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 that can be rotated for even wear, and the 3/8" x 6" heat-treated cutting edges can be rotated 180° for extended use.



SAFETY GUIDELINES

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

Safety is a primary concern in the design and manufacture of the Summit Tractors Land Plane. Unfortunately, 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 operator's manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Safety Signal Words

The safety labels on the machine and safety messages in this manual use a combination of symbols, signal words, and color-coding to identify the following hazardous situations or safety practices:



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.



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.



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.



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



Notes indicate important information. This information may be repeated in other areas of the manual.

CALIFORNIA

Proposition 65 Warning

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

For more information, visit: www.p65warning.ca.gov

SAFETY GUIDELINES

Training

Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety label information. (Replacement manuals and safety labels are available from authorized Summit 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 Summit 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 Roll-Over Protection System (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 labels are installed. Replace if damaged. (See pp. 5-6, **SAFETY AND INSTRUCTIONAL 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 Roll-Over Protection System (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.

SAFETY GUIDELINES

Operation Continued

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 Roll-Over Protection System (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.

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.

SAFETY GUIDELINES

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 INSTRUCTIONAL LABELS

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

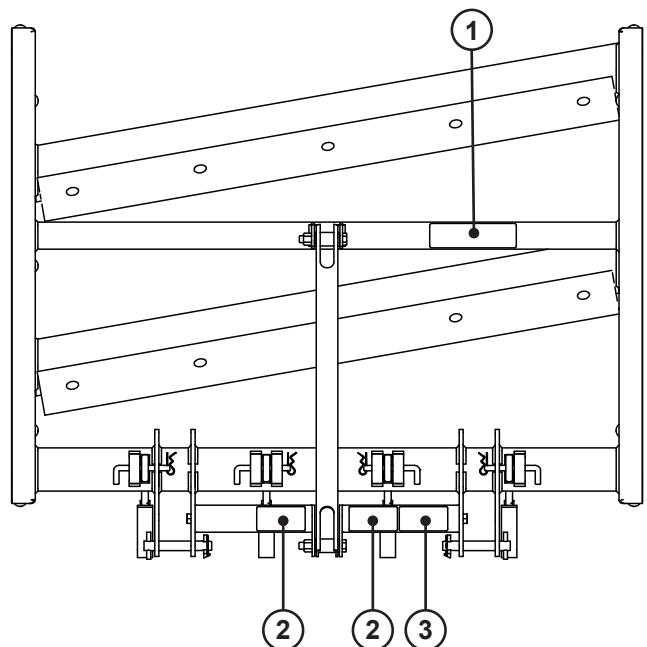
The Summit Tractors Land Plane comes equipped with all safety labels in place. These safety labels are designed to help users safely operate the equipment. They inform users about possible hazards associated with the normal operation or foreseeable misuse of the product and how to properly avoid those 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 Summit dealer to order replacement labels.
5. Refer to Figure 1 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.


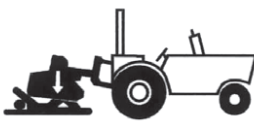
Figure 1

Top View - Model LPX54




SAFETY AND INSTRUCTIONAL LABELS

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

⚠ 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

⚠ WARNING

<p>CRUSHING AND PINCHING HAZARD</p> <ul style="list-style-type: none"> • 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
<p>To Avoid Serious Injury:</p> <ul style="list-style-type: none"> ■ 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

Warning Label Sheet (Part Number 4000078, contains Label #s 1, 2, & 3)

ASSEMBLY AND SETUP

LPX54 Assembly

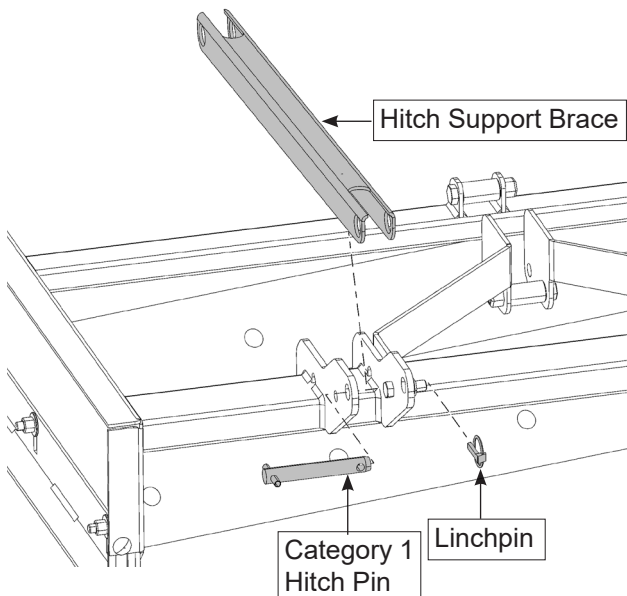
The LPX54 Land Plane ships with the A-Arms and Hitch Support Brace secured flat to the Land Plane frame. The bottom of each A-Arm is bolted to the main hitch brace. Follow the assembly steps below before attempting to use the implement.

WARNING

Avoid serious injury or death!

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

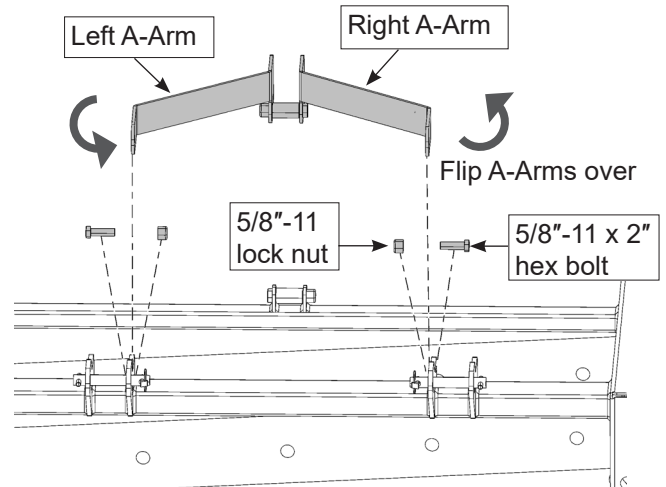
1. Cut the zip tie securing Hitch Support Brace to Land Plane frame. Discard zip tie and cardboard padding.
2. Remove the Category 1 hitch pin securing the other end of the Hitch Support Brace. Set the Hitch Support Brace aside and re-install the Category 1 hitch pin onto the Land Plane frame.



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

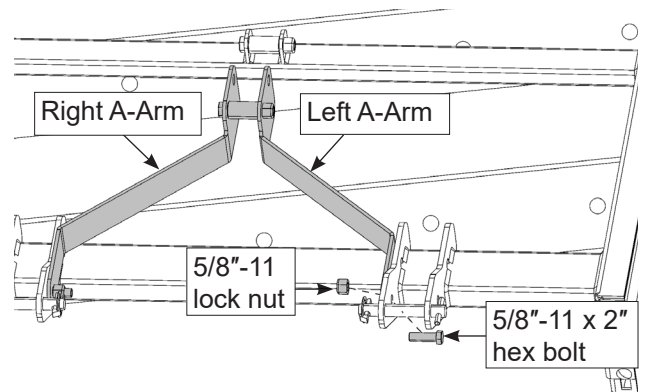
3. Loosen and remove the two 5/8"-11 x 2" hex bolts securing the A-Arms to the Land Plane Frame.

4. Flip the A-Arms over, then realign the A-Frame 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 Land Plane frame and A-Arms and secure with 5/8"-11 nylon lock nuts. (**DO NOT** fully tighten the lock nuts at this time.)

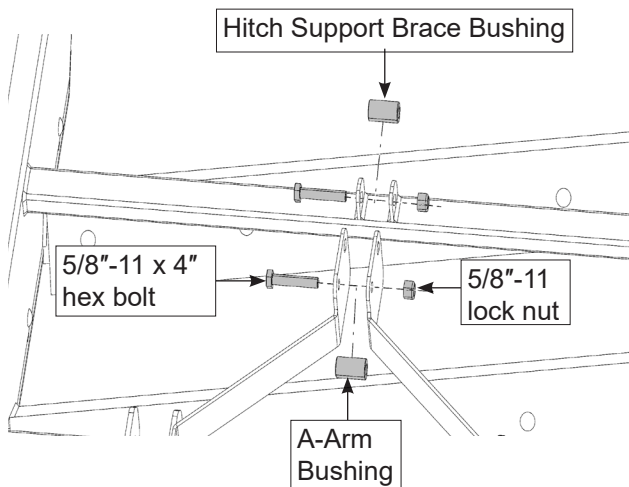


Loosely secure A-Arms with hex bolts and lock nuts.

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 Land Plane frame and set the hardware aside.
7. Remove the 5/8"-11 x 4" hex bolt and the spacer bushing from A-Arms.

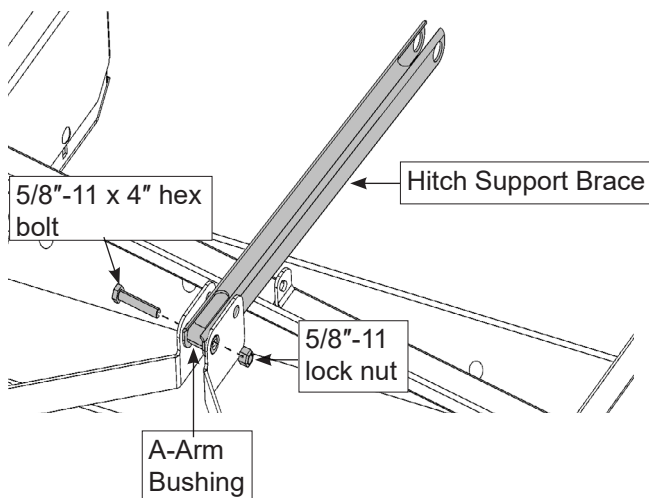
ASSEMBLY AND SETUP

LPX54 Assembly Continued



Remove A-Arm Bushing and Hitch Support Brace Bushing.

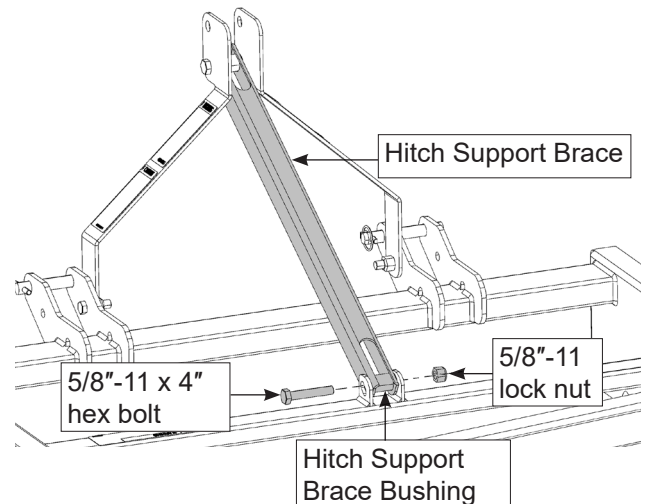
- Align the A-Arm spacer bushing with one end of the Hitch Support Brace, Then align the bolt holes with the lower bolt holes on the A-Arms. (Ensure the curved edge of the Hitch Support Brace faces down.)
- Insert the 5/8"-11 x 4" hex bolt through the A-Arm, Hitch Support Brace and spacer bushing. Secure 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.

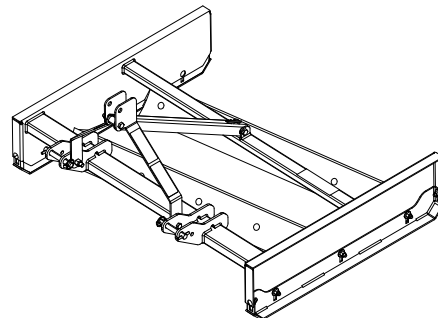
- Grasp the Hitch Support Brace and push forward, raising the A-Arms until they are perpendicular to the Land Plane frame.
- Align the hitch support brace spacer bushing inside the ends of the Hitch support brace.

- Align the bolt holes on the end of the Hitch Support Brace with the attachment point located on the center support tube of the Land Plane frame.
- 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 21)



Secure Hitch Support Brace to attachment point.

- Tighten nylon lock nut securing Hitch Support Brace to A-Arms. Torque to proper specifications.
- Tighten the two lock nuts securing A-Arms to Land Plane frame. Torque to proper specifications.
- The Land Plane is now fully assembled and ready for use.



Fully assembled LPX54.

ATTACHING

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 Land Plane 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 linchpins.



Attach tractor draft link to hitch pin.

6. Align center link with upper hole in Land Plane 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 Land Plane. Check for interference.
9. Lower Land Plane 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.

ATTACHING

Attaching to Tractor Quick Coupler Hitch

IMPORTANT

Avoid Damage!

DO NOT remove the sleeve and 5/8" f 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 Land Plane hitch pins.



Lower quick hitch hooks.

3. Back up tractor to Land Plane hitch.
4. Raise hitch high enough to engage Land Plane hitch pins in hooks.



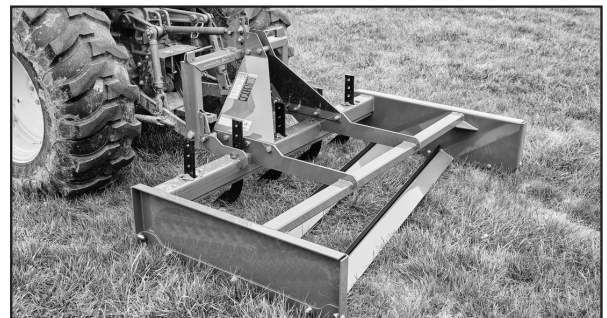
Raise quick hitch and engage hitch pins.

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 Land Plane 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 Land Plane. Check for interference.
9. Lower Land Plane 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

Detaching from Tractor 3-Point Hitch

1. Lower Land Plane to the ground, then set tractor parking brake and shut off tractor engine.
2. Remove linchpins 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 Land Plane to the ground. Continue lowering quick hitch until hooks clear Land Plane 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 labels on pages 2 through 6.

The Summit Tractors Land Plane 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 injury!

- **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. Wear respirator or filter mask where appropriate.**

Operational Readiness Checklist

Operators should verify the following before using the Summit Tractors Land Plane.

1. Operator has reviewed the entire Operator's 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. Land Plane is completely assembled. (pp. 7-8)
5. All fasteners torqued to specifications in torque chart. (p. 21)
6. All safety and instructional labels in place and legible. (pp. 5-6)
7. Implement is correctly and securely attached to tractor. (pp. 9-10)

Adjusting Implement Tilt

1. Level the front and rear of the Land Plane by adjusting the tractor's 3-point top link (See Figure 2).
 - a. Shortening the top link raises the rear of the Land Plane and lowers the front.
 - b. Lengthening the top link lowers the rear of the Land Plane and raises the front.
2. Level the right and left side of the Land Plane 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 2: Use tractor top link to tilt front and rear of Land Plane.

OPERATION

Scraping and Leveling

1. Lower the Land Plane 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).

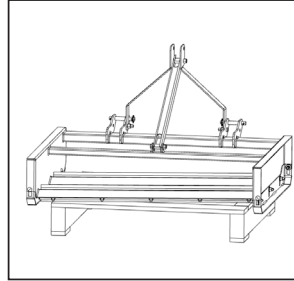
NOTE: When the top link is adjusted properly, both the front and rear grading blades should engage the ground and/or material being leveled.

2. Adjust the tractor top link to change the blade tilt and achieve the correct slope.
3. To spread large piles of material:
 - a. Raise the Land Plane and back over the pile.
 - b. Lower Land Plane and drive forward.
 - c. Once material is moved to desired location, begin raising the Land Plane 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 Land Plane 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.29).

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 Summit 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 Summit 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.

MAINTENANCE

This section is intended for operators with basic mechanical skills. Block up the Land Plane 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 Summit 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 Operator's 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 seat belt.**

CAUTION

Avoid 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. Wear respirator or filter mask where appropriate.**

Blocking Up the Land Plane

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

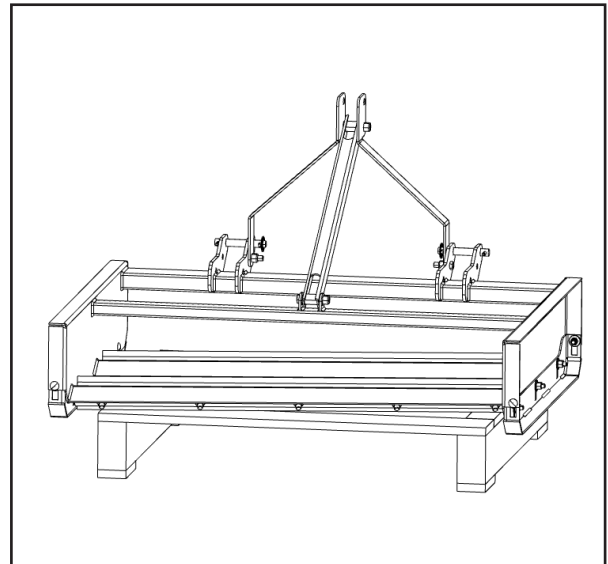


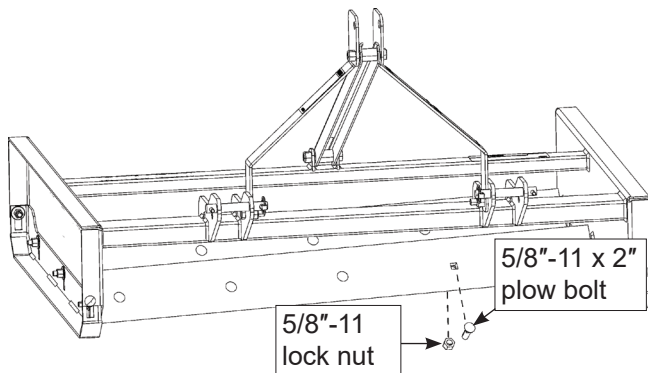
Figure 3: Land Plane blocked up on wooden supports.

MAINTENANCE

Rotating and Replacing Cutting Blades

The Land Plane uses two replaceable 3/8" x 6" cutting edges, which are also reversible for extended wear.

1. Follow **BLOCKING UP LAND PLANE** 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 Land Plane frame.

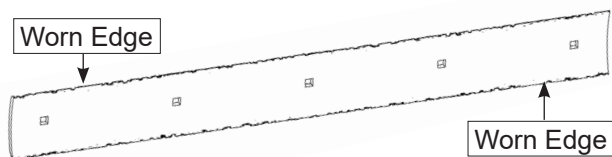


Remove bolts and lock nuts to reverse/replace cutting edge.

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.



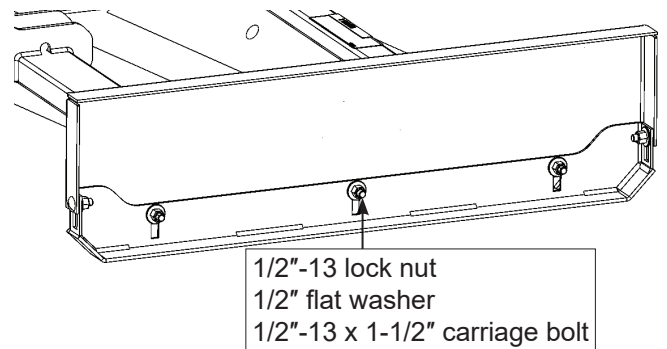
Two worn edges: Replace blade.

4. Attach cutting edge to Land Plane and secure with plow bolts and hex nuts removed during Step 2.
5. Torque plow bolts to correct torque specification (See p. 21).

Rotating and Replacing Skid Shoes

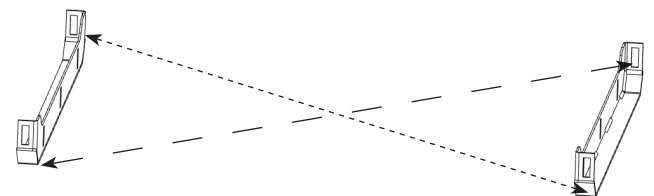
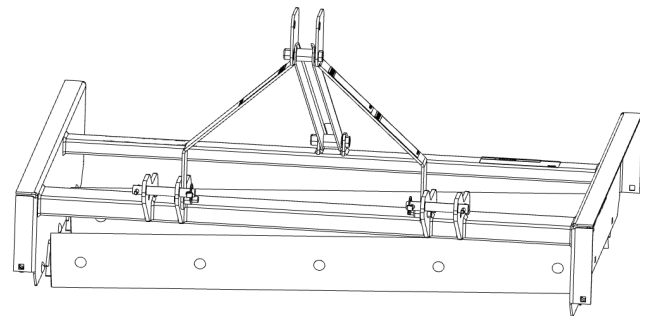
The Land Plane comes equipped with replaceable skid shoes that can be rotated for extended wear.

1. Follow **BLOCKING UP LAND PLANE** 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 Land Plane 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. 21)

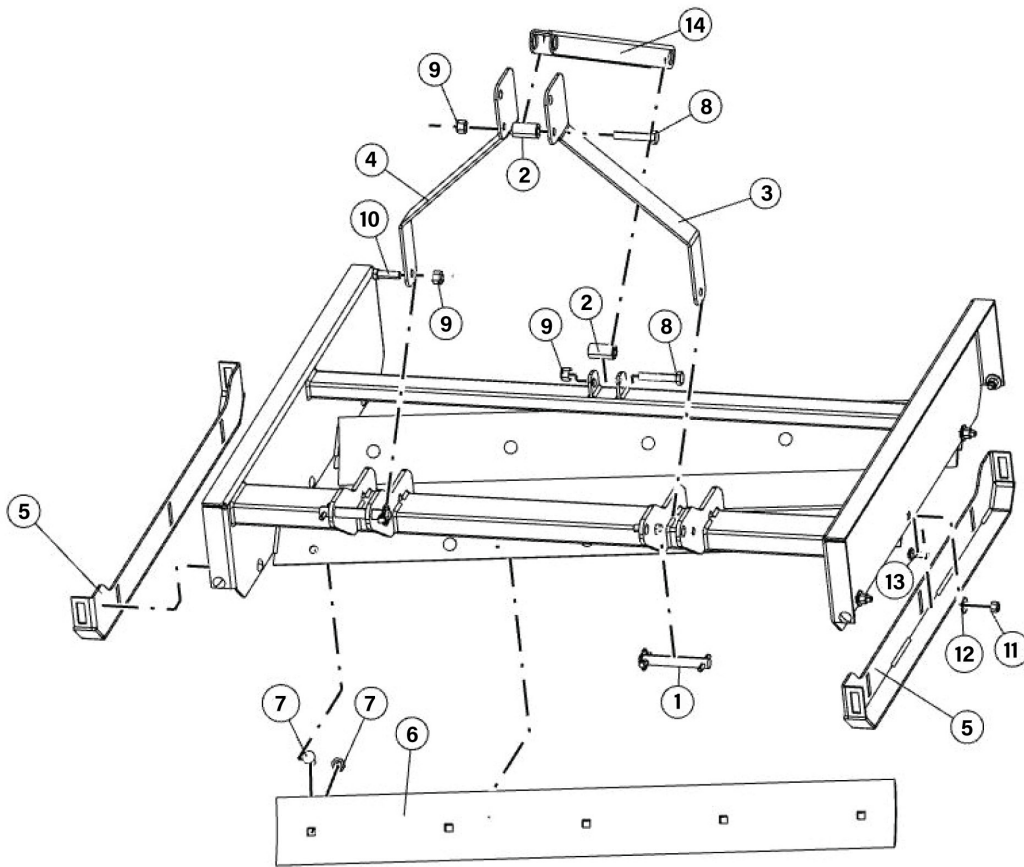
TROUBLESHOOTING

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.
Material spread is not level.	Skid shoes not adjusted evenly.	Measure skid shoe position on each side and make even.

PRODUCT SPECIFICATIONS

Model	LPX54
Dimensions	
Working Width	54"
Overall Width	58"
Overall Height	33"
Overall Length	48"
Height to Hitch Pins	14"
Weight	
Operating	278 lb
Tractor Requirements	
Engine HP	18-30 HP
Construction	
Side Panel Length	44"
Side Panel Height	12"
Side Panel Thickness	3/16" w/ Formed Edges
Skid Shoe Thickness	1/4"
Main (Front) Beam	2" X 4" X 1/4" Tubing
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
Quick Hitch Compatible	Yes

PARTS



Item#	Service Number	Description	Quantity
1	9000285	Cat 1 Hitch Pin w/Linchpin	2
2	9000177	Spacer Bushing	2
3	9001197	LH A-Arm	1
4	9001199	RH A-Arm	1
5	9001203	Skid Shoe	2
6	9001205	54" Cutting Edge	2
7	BCEM	Bolt Set for cutting Edge (6pk)	2
8	Obtain Locally	5/8"-11 x 4" Hex Bolt	2
9	Obtain Locally	5/8"-11 Nylon Lock Nut	14
10	Obtain Locally	5/8"-11 x 2" Hex Bolt	2
11	Obtain Locally	1/2"-13 nylon Lock Nut	10
12	Obtain Locally	1/2" Flat Washer	10
13	Obtain Locally	1/2"-13 x 1-1/2" Carriage Bolt	10
14	9001201	Hitch Support	1

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BOLT TORQUE CHART

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

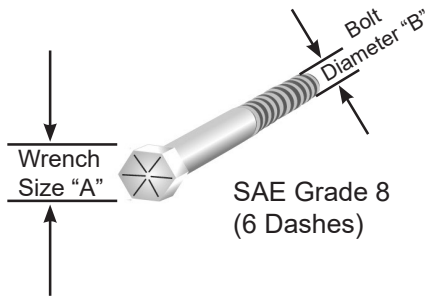
AMERICAN Bolt Head Markings



SAE Grade 2
(No Dashes)



SAE Grade 5
(3 Dashes)



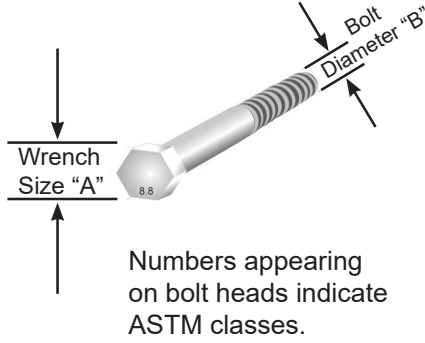
SAE Grade 8
(6 Dashes)

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)

BOLT TORQUE CHART

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

METRIC



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

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)		1138 (1542)
46	30	418 (566)	1119 (1516)		1547 (2096)

WARRANTY

Manufacturer's Limited Warranty

Summit Tractors LLC, 3379 Peachtree Road NE Suite 555 Atlanta, Ga 30326, warrants to the original purchaser that the purchased product is free from defects in material and workmanship for a period of one (1) year commencing on the date of original purchase, as evidenced by the original receipt, and will, at its option, repair, replace, or issue credit for any product or part found to be defective.

This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial or industrial use, neglect, improper maintenance, alteration or accident, or which has been used for a purpose for which the product was not designed. Damage resulting from the installation or use of any part, accessory, or attachment not approved by Summit Tractors LLC, for use with the product covered by the Operator's Manual, shall void the warranty as to any resulting damage.

This limited warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this warranty does not transfer to the third party in any manner.

Warranty Disclaimer

This limited warranty is in lieu of, and Summit Tractors LLC disclaims and excludes any express and implied warranties with respect to the product including, without limitation, merchantability and fitness for a particular purpose. No other express warranty, whether written or oral, given by any person or entity, including a retailer, with respect to any product, shall bind Summit Tractors LLC.

Summit Tractor LLC's exclusive liability for breach of the limited warranty, as set forth above, on the product shall be to repair or replace the product within the warranty period in accordance with the terms of this limited warranty. The choice of remedy shall belong solely to Summit Tractor LLC. In no event shall Summit Tractor LLC be liable for any loss or damages of any other kind, whether direct, incidental, consequential including lost profits, exemplary, special or otherwise, including without limitation, expenses incurred for substitute or replacement product or for rental expenses to temporarily replace a warranted product.

Under no circumstance shall recovery, of any kind, be greater than the amount of the purchase price of the product purchased. Customer assumes all risk and liability for loss, damage, or injury to customer or customer's property and/or the property of others arising out of the misuse or inability to use the product.

Legal Rights

This limited warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. Some states do not allow any limitation on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

WARRANTY

Additional Information

Contact your authorized dealer for complete warranty information and assistance with warranty claims. Retain original sales receipt, and record the model number, serial number, and the date of purchase in the spaces provided below. This information will be helpful to the dealer if parts or service are required.

Warranty Claim Information

Dealer Name

Dealer Address

Dealer Phone

Dealer Email

Purchase Date

Model Number

Serial Number/UPC

PART NO.
4000972

International Tractors
USA Corporation
1900 Parrish Drive SE
Rome, GA 30161

770-209-3390
support@summittractors.com

