



MINI AUGER MIXING BUCKET



⚠ Read this entire manual. This safety alert symbol is used throughout this manual to call your attention to messages involving your personal safety and the safety of others. Failure to follow these instructions can result in injury or death.

Owner: _____

Date Purchased: _____

Model #: _____ Serial #: _____

Manual #: _____

⚠ WARNING

Si no entiende inglés, se prefiere que busque a alguien que interprete las instrucciones para usted.

Operator's Manual

Skid Pro
807 McKay Ave S. Alexandria, MN 56308
Tel: (877) 378-4642
E-mail: sales@skidpro.com
Website: www.skidpro.com



Dear Owner/Operator,

Thank you for purchasing this Skid Pro Mini Auger Mixing Bucket. We appreciate your business.

With a 1/4 yard capacity, the Mini Auger Mixing Bucket is designed to mix, transport, and dispense concrete or other materials where needed.

Your safety as an operator of our product is very important to us. Therefore, ***before*** you assemble, install, operate, maintain, service, remove, or move your Skid Pro Mini Auger Mixing Bucket, read and understand this manual thoroughly. If there is anything you do not understand, immediately contact your dealer, or contact our factory direct.

Tel: (877) 378-4642
E-mail: sales@skidpro.com

Your satisfaction in the performance and longevity of our product is also very important to us and can be prolonged by proper assembly, installation, operation, and maintenance as instructed in this manual.

Thank you again for your business and for your trust in our product. Please feel free to contact us at any time for further assistance.

Sincerely,

Skid Pro
807 McKay Ave S.
Alexandria, MN 56308

Tel: (877) 378-4642
E-mail: sales@skidpro.com Website: www.skidpro.com

Skid Pro provides this manual "as is" without warranty of any kind, either expressed or implied. Skid Pro assumes no responsibility for errors or omissions. Skid Pro assumes no liability for damages resulting from the use of the information contained herein. Skid Pro reserves the right to revise and improve its products as it sees fit. This manual describes the state of this product at the time of its publication and may not reflect the product in the future.

Foreword

Please read this manual thoroughly!

Before you assemble, install, operate, maintain, service, remove, or move your Skid Pro Mini Auger Mixing Bucket, read this manual thoroughly. If there is anything you do not understand, immediately contact your dealer, or call our factory direct at (877) 378-4642. Powered equipment can be dangerous if not assembled, installed, operated, maintained, serviced, removed, or moved properly.

Warranty Registration

To activate your warranty coverage and to provide you with efficient customer service, please fill out your WARRANTY REGISTRATION FORM. This form is included in your unit's paperwork package. If you did not complete a WARRANTY REGISTRATION FORM or did not receive one, please call Skid Pro. Or, register online at www.skidpro.com. Your satisfaction with our product and your safety as a user of our product are both very important to us.

Symbols

 This SAFETY ALERT symbol identifies important safety messages. Carefully read each safety message that follows. Failure to understand and obey a safety message, or recognize a safety hazard, could result in injury or death to you or others around you. The operator is ultimately responsible for the safety of himself, as well as others, in the operating area of the Mini Auger Mixing Bucket.

Symbol	Meaning
 DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, including hazards that are exposed when guards are removed.
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
 NOTE	This is important information for proper use of this equipment. Failure to comply may lead to premature equipment failure.

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WARNING

Working with familiar equipment can lead to careless injuries. Read and understand this manual and the manual for your vehicle before assembling, installing, operating, maintaining, servicing, removing, or moving the Skid Pro Mini Auger Mixing Bucket. If there is anything in this manual you do not understand, contact your dealer or Skid Pro. The safe use of this attachment is strictly up to you, the operator. If this attachment is used, loaned, or rented by any other person, it is the owner's responsibility to make certain that the operator prior to operating:

- Reads and understands the Operator's Manual
- Is instructed in safe and proper use
- The Mini Auger Mixing Bucket is designed to be operated from the vehicle operator station. Keep bystanders away from the work area. Do not operate with another person in contact with any part of the Mini Auger Mixing Bucket.
- All operators of this attachment must read and understand this entire manual, paying particular attention to safety messages and operation instructions prior to assembling, installing, operating, maintaining, servicing, removing, or moving the Mini Auger Mixing Bucket.
- Please remember it is also important that you read, understand, and follow the safety signs on the attachment. Clean or replace all safety signs if they cannot be clearly read and understood. They are there for your safety as well as the safety of others. Skid Pro will furnish new safety signs upon request at no charge.
- All things with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes potential hazards and follows reasonable safety practices.
- Personal protection equipment including hard hat, safety glasses, safety shoes, gloves, and hearing protection are recommended during assembly, installation, operation, maintenance, service, removal, or movement of attachment.
- Exposure to silica dust and other dust hazards can cause serious or fatal respiratory disease. Use appropriate respiratory protection.
- When the use of hand tools is required to perform any part of assembly, installation, operation, maintenance, or service of the attachment, be sure the tools used are designed and recommended by the tool manufacturer for that specific task.
- Never check pressurized system for leaks with your bare hand. Wear proper hand and eye protection and use wood or cardboard when searching for suspected leaks. Oil escaping from pinhole leaks under pressure can penetrate skin and create a serious medical emergency. If any fluid is injected into the skin, gangrene, blood poisoning, even death may result. Obtain medical attention immediately.
- Always use two people to handle heavy, unwieldy components during assembly, installation, maintenance, service, removal, or movement of the attachment.
- Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintenance, service, removal, or movement of the Mini Auger Mixing Bucket.
- Only properly trained people should operate the equipment. Do not allow anyone who has not read this entire manual and understood the safety rules, safety signs, and operation instructions to use this attachment.
- Never allow children to operate or be around the Mini Auger Mixing Bucket.
- Do not use the Mini Auger Mixing Bucket as a work platform.

Safety

(continued)

- Do not allow riders on the equipment at any time. There is no safe place for any riders.
- Never use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment. Consult your doctor about operating the equipment while taking prescription or over-the-counter medications.
- Safe operation of equipment requires the operator's full attention. Avoid distractions such as a radio, headphones, cell phones, etc. while operating.
- Stay away from power lines when transporting, raising, or operating the attachment. Electrocution can occur without direct contact.
- The Mini Auger Mixing Bucket must be securely latched to the vehicle. Ensure both locking handles are in the locked position with pins fully seated. An improperly latched Mini Auger Mixing Bucket can fall without warning.
- Make sure safety grate is in place and secured before operating equipment.
- Keep hands, feet, hair, jewelry, and clothing away from all moving and/or rotating parts.
- Never place yourself between the vehicle and the attachment.
- Never allow anyone under the attachment at any time.
- Never reach into discharge end of auger.
- Keep clear of auger while in operation. Never position the material by hand or with any tool when the auger is rotating.
- Do not exceed the vehicle's rated operating load. Use sufficient counterweights. Move the vehicle slowly when the attachment is raised.
- Carry the load low. A heavy load can cause instability of the vehicle. Use extreme care during travel. Slow down on turns and watch out for bumps. Use all safety devices as recommended in the vehicle operator's manual.
- For operator safety, always keep the load in front of the vehicle. Load should never be tilted toward or positioned over the operator.
- Do not operate the Mini Auger Mixing Bucket on steep hillsides. When operating the Mini Auger Mixing Bucket on uneven or hilly terrain, position the vehicle with the attachment uphill. With the attachment downhill, the vehicle could tip when attempting to raise the Mini Auger Mixing Bucket. Consult your vehicle operator's manual for maximum incline allowable.
- Always shut off the vehicle engine, remove the key, lower vehicle arms, and relieve all hydraulic pressure before dismounting the vehicle. Never leave equipment unattended with the vehicle running.
- Never attempt adjustments, service, or repairs while the equipment is in operation.
- Never work under equipment supported by hydraulics. Even with the vehicle shut off, equipment can suddenly drop if controls are actuated or if hydraulic lines burst.
- Before connecting or disconnecting hydraulic lines or fittings, be sure to relieve all pressure by cycling all hydraulic controls after shutdown. Remember hydraulic systems are under pressure whenever the engine is running and may hold pressure after shutdown.
- Store the attachment on a flat, level surface where children do not play. Securely block and support the attachment.
- Do not modify the attachment. Modifications can weaken the integrity of the attachment and may impair the safety, function, life, and performance of the Mini Auger Mixing Bucket.

Safety

(continued)

- When making repairs or servicing the Mini Auger Mixing Bucket, use only parts that meet the original equipment manufacturer's standards and requirements.
- Always use care when operating the Mini Auger Mixing Bucket. Most accidents occur because of neglect or carelessness.

Safety is a primary concern in the design, manufacture, sale, and use of the Mini Auger Mixing Bucket. Skid Pro confirms to you, our customer, our concern for safety.

⚠ DANGER

Improper operation of this Mini Auger Mixing Bucket can cause serious personal injury or death. Operation of this attachment should only be done by a competent adult acting in compliance with the Operator's Manual. Since Mini Auger Mixing Bucket operations are beyond our control, we disclaim all liability for any damages, injuries or death which may result.

⚠ CALIFORNIA WARNING

This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Decals & Safety Signs

The Mini Auger Mixing Bucket comes equipped with all safety signs in place. Their locations are shown in this section. Read and follow their instructions and ensure their care:

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing, illegible, or damaged.
- Ensure replacement parts installed during repair have safety signs attached.

To install new safety signs, follow these steps:

1. Clean the area where the safety sign is to be placed.
2. Spray a little soapy water on the surface where the safety sign is to be placed.
3. Peel the backing from the safety sign, and apply it in the position shown.
4. Firmly press the safety sign, and squeeze out the air bubbles with a straight edge (e.g., a credit card).

PART NO. DANUSER109

Locations: Hopper, both sides



PART NO. DIG30

Locations: Hopper, both sides



PART NO. DIG15

Locations: Hopper, both sides



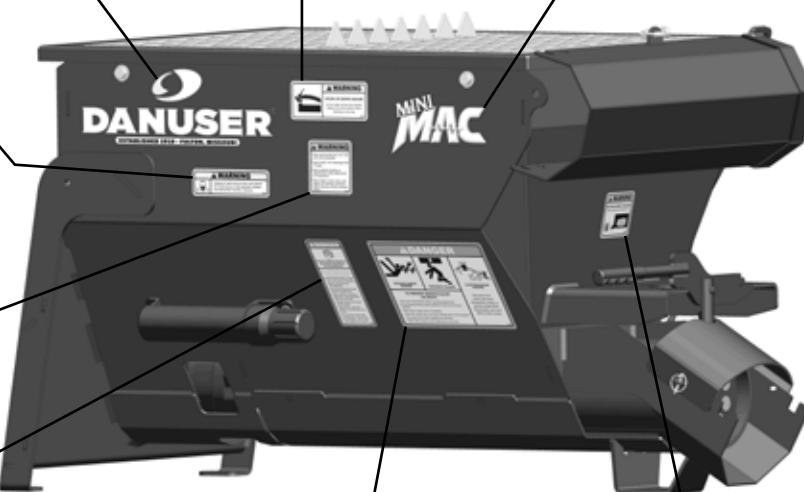
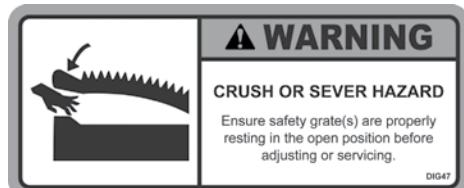
PART NO. DIG13

Locations: Hopper, both sides



PART NO. DIG47

Locations: Hopper, both sides



PART NO. 256012

Locations: Hopper, both sides



PART NO. DIG46

Locations: Hopper, both sides



PART NO. DIG52

Location: Hopper, discharge end



⚠️ WARNING

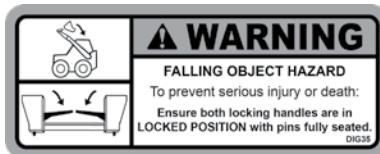
Clean or replace all safety signs if they cannot be clearly read and understood.

Decals & Safety Signs

(continued)

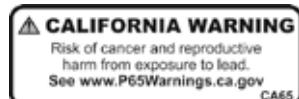
PART NO. DIG35

Locations: Hopper, motor end



PART NO. CA65

Location: Hopper, motor end



PART NO. DIG5

Location: Hopper, motor end



Model No. & Serial No.

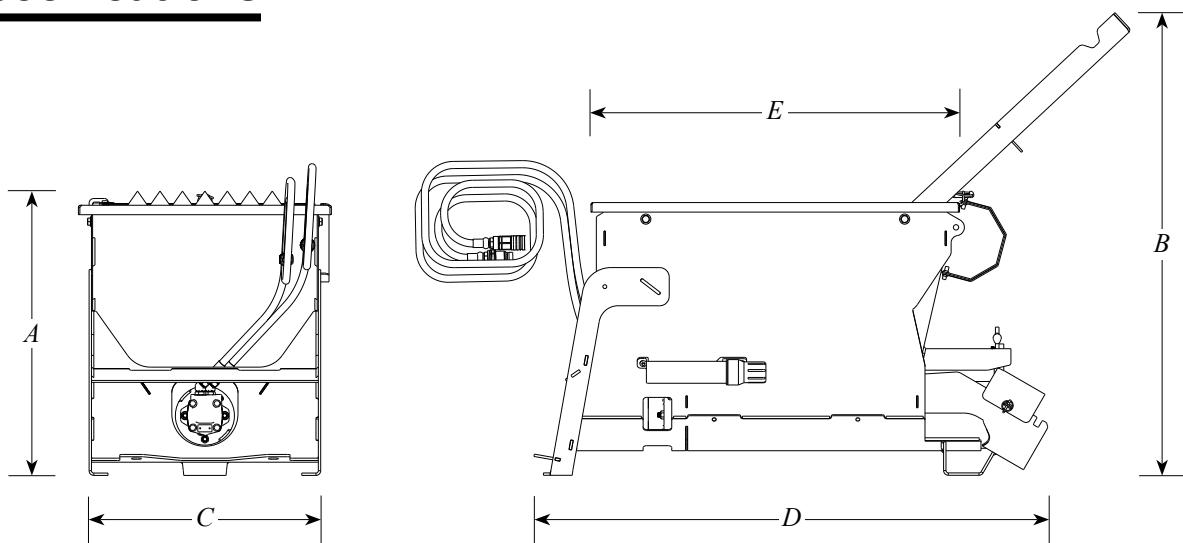
Location: Hopper, motor end



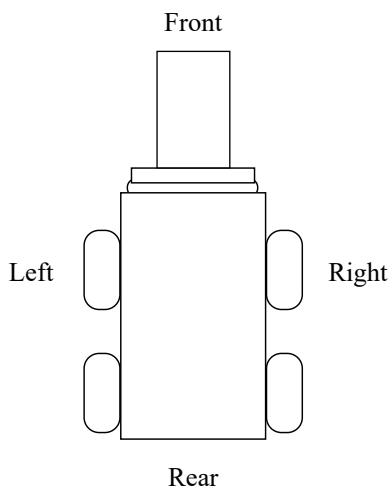
⚠ WARNING

Clean or replace all safety signs if they cannot be clearly read and understood.

Specifications



Operator's Manual Direction Terminology



Mini Auger Mixing Bucket	
Height, Grate Lowered (A)	30"
Height, Grate Open (B)	48.5"
Overall Width (C)	24.5"
Overall Length (D)	54"
Overall Hopper Length (E)	38.7"
Weight	370 lb.
Auger Diameter	6.12"
Center Column Diameter	1.32" O.D. .18" wall
Auger Length	27.5"
Flighting Spacing	4"
Capacity	1/4 yard (6.75 ft ³)
80-lb. Bags Concrete Mix	Approx. 9 (1/4 yd)
Dispense Rate	14 seconds @ 24 GPM
Hydraulic Requirements	Up to 24 GPM Up to 3,500 PSI
Mounting Options	Mini-Skid-Steer Quick Attach

Hydraulic Requirements

Filtration Requirements:

- A filter of, at least, 10 micron filtration is required.

NOTE

The life of the hydraulic motor is almost entirely dependent upon cleanliness of the oil. Instructions in your vehicle operator's manual regarding filter and oil changes should be carefully followed. Even small amounts of dirt in the hydraulic oil can cause premature motor failure that is not covered by warranty.

Pressure and Flow Requirements:

- The Mini Auger Mixing Bucket is designed to operate up to 24 GPM and up to 3,500 PSI.

Hydraulic Fluid Selection Requirements:

- Premium grade petroleum-based fluids will provide the best performance.
- Fluids that contain anti-wear agents, rust inhibitors, anti-foaming agents, and oxidation inhibitors are recommended.
- The viscosity of the fluid should never fall below 70 SUS (13 cST). The best viscosity range for the Mini Auger Mixing Bucket is 100-200 SUS (20-43 cST).

Assembly & Installation

⚠ WARNING

Personal protection equipment including hard hat, safety glasses, safety shoes, gloves, and hearing protection are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

Prepare the Vehicle

Read and understand the manual for your vehicle before assembling or installing the Mini Auger Mixing Bucket. The vehicle must be equipped with auxiliary hydraulics and a mini-skid-steer quick attach mount. The use of the Mini Auger Mixing Bucket may require the addition of counterweights to ensure the combined weight of the attachment and load does not exceed the rated capacity of your vehicle.

⚠ WARNING

Do not exceed the vehicle's rated operating load. If necessary, use sufficient counterweights.

Recommended Tools

- 9/16" wrench
- Metal snips

STEP 1: Using a 9/16" wrench and metal snips, remove the bolts securing the Mini Auger Mixing Bucket to pallet, banding, and any other packaging materials.

STEP 2: Park the vehicle on level ground, and install the Mini Auger Mixing Bucket by following your vehicle operator's manual for installing an attachment.

⚠ WARNING

The Mini Auger Mixing Bucket must be securely latched to the vehicle. Ensure both locking handles are in the locked position with pins fully seated. An improperly latched Mini Auger Mixing Bucket can fall without warning.

STEP 3: Connect the hydraulic hoses to the vehicle's auxiliary hydraulics. Test the vehicle to make sure you have enough hose length to perform the full range of the loader arms' operating heights.

⚠ WARNING

Before connecting or disconnecting hydraulic lines or fittings, be sure to relieve all pressure by cycling all hydraulic controls after shutdown. Remember hydraulic systems are under pressure whenever the engine is running and may hold pressure after shutdown.

NOTE

Ensure quick couplers are clean prior to connection.

NOTE

Hose routing is the responsibility of the operator. Pinched and/or stretched hoses are not covered under the warranty.

STEP 4: Engage the vehicle's auxiliary hydraulics to make sure the Mini Auger Bucket auger freely rotates forward and reverse.

⚠ WARNING

Keep hands, feet, hair, jewelry, and clothing away from all moving and/or rotating parts.

Assembly & Installation

(continued)

STEP 5: Check the hydraulic system for leaks.

⚠ WARNING

Never check pressurized system for leaks with your bare hand. Wear proper hand and eye protection and use wood or cardboard when searching for suspected leaks. Oil escaping from pinhole leaks under pressure can penetrate skin and create a serious medical emergency. If any fluid is injected into the skin, gangrene, blood poisoning, even death may result. Obtain medical attention immediately.

Operation

Dispense

⚠ DANGER

The Mini Auger Mixing Bucket is designed to be operated from the vehicle operator station. Keep bystanders away from the work area. Do not operate with another person in contact with the Mini Auger Mixing Bucket.

⚠ WARNING

Personal protection equipment including hard hat, safety glasses, safety shoes, gloves, and hearing protection are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

⚠ WARNING

Safe operation of equipment requires the operator's full attention. Avoid distractions such as radio headphones, cell phones, etc. while operating.

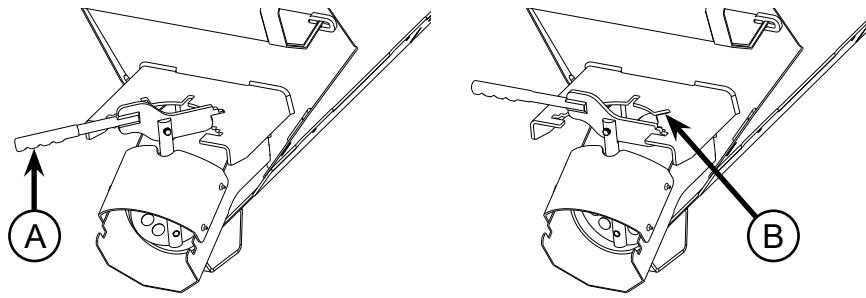
Stay away from power lines when transporting, raising, or operating the attachment. Electrocution can occur without direct contact.

⚠ WARNING

Before you operate the attachment, check over pins and connections to be sure all are securely in place. Make sure the Mini Auger Bucket is securely latched to the vehicle. Make sure the safety grate is properly installed.

STEP 1: Ensure the Mini Auger Mixing Bucket is properly attached.

STEP 2: Close the gate on the discharge end by lifting on the handle (A) and rotating it to the left or right. Once closed, lower the handle and ensure it locks into one of the slots in the latch plate (B).



STEP 3: Add material(s) to the hopper.

⚠ WARNING

Do not exceed the vehicle's rated operating load. If necessary, use sufficient counterweights.

Operation

Dispense
(continued)

⚠ WARNING

Keep hands, feet, hair, jewelry, and clothing away from all moving and/or rotating parts.

⚠ DANGER

Do not use the Mini Auger Mixing Bucket as a work platform.

⚠ DANGER

Do not allow riders on the equipment at any time. There is no safe place for any riders.

⚠ WARNING

Never place yourself between the vehicle and the attachment.

⚠ DANGER

Do not operate Mini Auger Mixing Bucket without safety grate in place and closed.

STEP 4: Position the vehicle and, if necessary, attach chute(s) to reach the desired dispensing location.

⚠ DANGER

For operator safety, always keep the load in front of the vehicle. Load should never be tilted toward or positioned over the operator.

⚠ WARNING

Carry the load low. A heavy load can cause instability of the vehicle. Use extreme care during travel. Slow down on turns and watch out for bumps. Use all safety devices as recommended in the vehicle operator's manual.

STEP 5: Open the gate on the discharge end by lifting on the handle and rotating it towards the center. Once open, lower the handle and ensure it locks into one of the center slots in the latch plate.

STEP 6: Run the auger in the forward direction to dispense material(s)

⚠ DANGER

Do not operate with another person in contact with the Mini Auger Mixing Bucket.

Never reach into the discharge end of the auger.

NOTE

If dispensing and the auger locks up, material may be lodged between the auger and the side of the hopper. Run the auger in the opposite direction to attempt to remove the bind. If this is unsuccessful, some material(s) may need to be removed. Over a clear, designated area, lift the hopper and tilt it forward in increments, testing the auger until the auger breaks free and begins moving material again.

STEP 7: Shut off the vehicle's auxiliary hydraulics when dispensing is complete.

Operation

Concrete Mixing & Dispensing

⚠ DANGER

The Mini Auger Mixing Bucket is designed to be operated from the vehicle operator station. Keep bystanders away from the work area. Do not operate with another person in contact with the Mini Auger Mixing Bucket.

⚠ WARNING

Exposure to silica dust and other dust hazards can cause serious or fatal respiratory disease. Use appropriate respiratory protection.

⚠ WARNING

Personal protection equipment including hard hat, safety glasses, safety shoes, gloves, and hearing protection are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

⚠ WARNING

Safe operation of equipment requires the operator's full attention. Avoid distractions such as radio headphones, cell phones, etc. while operating.

⚠ DANGER

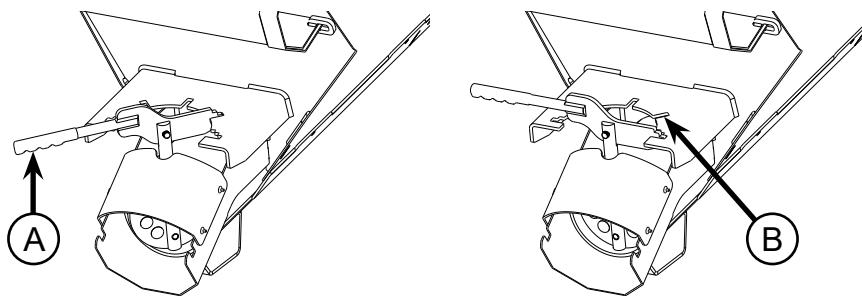
Stay away from power lines when transporting, raising, or operating the attachment. Electrocution can occur without direct contact.

⚠ WARNING

Before you operate the attachment, check over pins and connections to be sure all are securely in place. Make sure the Mini Auger Mixing Bucket is securely latched to the vehicle. Make sure the safety grate is properly installed.

STEP 1: Ensure the Mini Auger Mixing Bucket is properly attached.

STEP 2: Close the gate on the discharge end by lifting on the handle (A) and rotating it to the left or right. Once closed, lower the handle and ensure it locks into one of the slots in the latch plate (B).



STEP 3: Add material(s) to the dispensing end of the hopper and liquid to the motor end.

NOTE

Use the safety grate to break open bags by tossing a bag onto the bag breakers and rocking the bag back and forth until it splits, dumping material(s) into the hopper.

⚠ DANGER

Do not operate the Mini Auger Mixing Bucket without safety grate in place and closed.

STEP 4: Run the auger in reverse to bring the dry material(s) to the liquid.

STEP 5: Add more dry material(s) and liquid to get the volume and mixture required.

NOTE

If mixing and the auger locks up, material may be lodged between the auger and the side of the hopper. Momentarily run the auger in the opposite direction to attempt to remove the bind.

NOTE

Motor stalling could occur if the mixture is too dry.

⚠ WARNING

Do not exceed the vehicle's rated operating load. If necessary, use sufficient counterweights.

Operation

Concrete Mixing & Dispensing (continued)

NOTE

If the mixture becomes too dry, it may be necessary to shovel material from the sides and corners of the hopper. Follow these steps to shovel material(s):

⚠ WARNING

Keep hands, feet, hair, jewelry, and clothing away from all moving and/or rotating parts.

⚠ DANGER

Do not use the Mini Auger Mixing Bucket as a work platform.

⚠ DANGER

Do not allow riders on the equipment at any time. There is no safe place for any riders.

⚠ WARNING

Never place yourself between the vehicle and the attachment.

STEP 6: When mixing is complete, position the vehicle and, if necessary, attach additional chute(s) to reach the desired dispensing location.

⚠ WARNING

For operator safety, always keep the load in front of the vehicle. Load should never be tilted toward or positioned over the operator.

Carry the load low. A heavy load can cause instability of the vehicle. Use extreme care during travel. Slow down on turns and watch out for bumps. Use all safety devices as recommended in the vehicle operator's manual.

Operation

Concrete Mixing & Dispensing (continued)

STEP 7: Open the gate on the discharge end by lifting on the handle and rotating it towards the center. Once open, lower the handle and ensure it locks into one of the center slots in the latch plate.

STEP 8: Run the auger in the forward direction to dispense material(s).

DANGER

Do not operate with another person in contact with the Mini Auger Mixing Bucket.

Never reach into the discharge end of the auger.

NOTE

If dispensing and the auger locks up, material may be lodged between the auger and the side of the hopper. Run the auger in the opposite direction to attempt to remove the bind. If this is unsuccessful, some material(s) may need to be removed. Over a clear, designated area, lift the hopper and tilt it forward in increments, testing the auger until the auger breaks free and begins moving material again.

STEP 9: Shut off the vehicle's auxiliary hydraulics when dispensing is complete.

Cleaning

⚠ DANGER

Never attempt adjustments, service, or repairs while the equipment is in operation.

⚠ DANGER

Never allow anyone under the attachment at any time.

⚠ WARNING

Keep hands, feet, hair, jewelry, and clothing away from all moving and/or rotating parts.

⚠ WARNING

Personal protection equipment including hard hat, safety glasses, safety shoes, gloves, and hearing protection are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

⚠ WARNING

Safe operation of equipment requires the operator's full attention. Avoid distractions such as radio headphones, cell phones, etc. while operating.

Depending upon the material dispensed, it may be necessary to add a cleaner or appropriate releasing agent to aid in cleaning the Mini Auger Mixing Bucket.

STEP 1: With the gate open, run the Mini Auger Mixing Bucket until all of the material is dispensed from the bucket

STEP 2: A second person, standing a safe distance away from the Mini MAC, should add water to the dispensing end of the hopper while the operator runs the auger in reverse, agitating the water and cleaning the hopper.

⚠ DANGER

Do not operate with another person in contact with the Mini Auger Mixing Bucket.

Never reach into discharge end of auger.

STEP 3: Run the auger in the forward direction to dispense the watery mixture.

NOTE

If necessary, raise the hopper and tilt it forward to rinse out any remaining material.

NOTE

If necessary, to clean build-up in hard-to-reach areas, open the safety grate. Once the build-up is removed, close safety grate.

⚠ DANGER

Do not operate the Mini Auger Mixing Bucket without safety grate in place and closed.

STEP 4: Level the Mini Auger Mixing Bucket, and lower it to the ground.

STEP 5: Shut off the vehicle engine, relieve all hydraulic pressure, and remove the vehicle key before leaving the vehicle operator station.

STEP 6: Remove the one (1) klik pin and lift the discharge rubber flap at the discharge end of the bucket. Clean it with water. Make sure there is not any material between the auger and the discharge tube, or between the discharge tube and gate seal.

STEP 7: Close the discharge rubber flap, and secure it with the one (1) klik pin.

STEP 8: Depending upon the material dispensed, coat the hopper with a rust protectant or concrete releasing agent.

NOTE

Do not allow material(s) to dry or water to freeze in the hopper. This will cause damage to the auger and the hopper.

STEP 9: Leave the discharge gate in the open position to allow liquid(s) to escape during storage.

Removal & Storage

Before storage, the Mini Auger Mixing Bucket should be thoroughly cleaned (refer to *Cleaning*). Make sure the hydraulic system is properly sealed against contaminants entering the unit. Always store the Mini Auger Mixing Bucket in a dry, covered location.

! DANGER

Never allow anyone under the attachment at any time.

! WARNING

Personal protection equipment including hard hat, safety glasses, safety shoes, gloves, and hearing protection are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

! CAUTION

Always use two people to handle heavy, unwieldy components during assembly, installation, maintenance, service, removal, or movement of the attachment.

STEP 1: Lower the Mini Auger Mixing Bucket onto a flat, level surface in an area where children do not play.

STEP 2: Disconnect the hydraulic hoses from the vehicle's auxiliary hydraulics.

! WARNING

Before connecting or disconnecting hydraulic lines or fittings, be sure to relieve all pressure by cycling all hydraulic controls after shutdown. Remember hydraulic systems are under pressure whenever the engine is running and may hold pressure after shutdown.

NOTE

Connect the quick couplers together to prevent contaminants from entering the Mini MAC's hydraulic system.

STEP 3: Follow your vehicle operator's manual for removing an attachment. Securely block and support the Mini Auger Mixing Bucket.

STEP 4: Tighten any loose nuts, bolts, and hydraulic components.

STEP 5: Replace any damaged or missing safety signs.

STEP 6: Lubricate the grease zerk.

Troubleshooting

Problem	Possible Cause	Solution
Auger does not rotate	Air in hydraulic system	Actuate hydraulics until auger has made one full rotation in forward and in reverse.
	Sheared key or roll pin	Remove auger and replace damaged component.
	Hydraulic hose pinched or obstructed	Fix pinched hose or remove obstruction.
	Leaking or failed hydraulic hose	Replace hydraulics hose.
	Quick couplers not engaged	Check quick coupler connects to vehicle.
	Vehicle auxiliary hydraulics not activated	Activate auxiliary hydraulics.
	Vehicle low on hydraulic oil	Add hydraulic oil to vehicle.
	Motor damaged	Contact Danuser.
	Auger locked up or compacted	Refer to <i>Concrete Mixing & Dispensing</i> .
Poor auger performance	Low flow	Check with flow meter. If low, investigate cause.
	Hydraulic hose restrictions	Clear hydraulic hose.
	Dirty oil or filter	Change oil and filter according to vehicle manufacturer's recommendation.
	Low hydraulic system pressure (PSI)	Check with pressure gauge. If low, investigate cause.
	Material build-up in discharge tube	With vehicle disconnected, lift discharge rubber flap to check for build-up within tube. Clean out as necessary.
	Material(s) too large	Reduce material size.
Leaking hopper	Material dispensing too thin	Run auger continuously in reverse, or thicken material.
	Worn motor seal	Replace motor seal.
	Damaged hopper	Contact Danuser.
	Worn gate seal	Replace gate seal.
Safety grate hard to open	Safety grate obstructed	Ensure no material is jammed between safety grate and ears.

For additional assistance, please call your dealer or contact Skid Pro direct:

*Tel: (877) 378-4642
E-mail: sales@skidpro.com*

Maintenance & Lubrication

Proper servicing and maintenance are key to the long life of any attachment. Careful inspection and routine maintenance help avoid costly downtime and repair. Do not use the Mini Auger Mixing Bucket with any damaged parts.

⚠ WARNING

Never check pressurized system for leaks with your bare hand. Wear proper hand and eye protection and use wood or cardboard when searching for suspected leaks. Oil escaping from pinhole leaks under pressure can penetrate skin and create a serious medical emergency. If any fluid is injected into the skin, gangrene, blood poisoning, even death may result. Obtain medical attention immediately.

⚠ DANGER

Never attempt adjustments, service, or repairs while the equipment is in operation.

⚠ DANGER

Never allow anyone under the attachment at any time.

⚠ DANGER

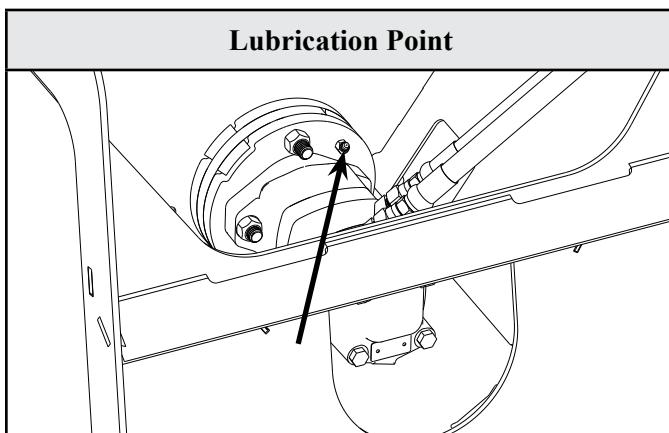
Never work under equipment supported by hydraulics. Even with the vehicle shut off, equipment can suddenly drop if controls are actuated or if hydraulic lines burst.

Do not modify the attachment. Modifications may weaken the integrity of the attachment and may impair the safety, function, life, and performance of the Mini Auger Mixing Bucket.

⚠ CAUTION

When making repairs or servicing the Mini Auger Mixing Bucket, use only parts that meet the original equipment manufacturer's standards and requirements.

Maintenance	Interval
Inspect the attachment for any damage, worn parts, or cracked welds. Repair or replace as necessary.	Before each use
Check for damaged or missing safety signs. Replace as necessary.	Before each use
Check all fasteners. Ensure they are tight and secure. (See <i>Torque Values Chart</i> .) Replace as necessary.	Daily
Check all hydraulic components for leaks or wear. Repair or replace as necessary.	Daily



Motor Mounting Plate - 1 Zerk

Add multi-purpose grease until grease emerges



Every
10
Hours

Service

Replacing Rubber Flight

! DANGER

Never attempt adjustments, service, or repairs while the equipment is in operation.

! DANGER

Never allow anyone under the attachment at any time.

! DANGER

Never work under equipment supported by hydraulics. Even with the vehicle shut off, equipment can suddenly drop if controls are actuated or if hydraulic lines burst.

! WARNING

Personal protection equipment including hard hat, safety glasses, safety shoes, gloves, and hearing protection are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

! CAUTION

Always use two people to handle heavy, unwieldy components during assembly, installation, maintenance, service, removal, or movement of the attachment.

Recommended Tools

- 5/16" punch
- Hammer
- Chisel
- 7/16" wrench
- Dead-blow hammer or mallet

NOTE

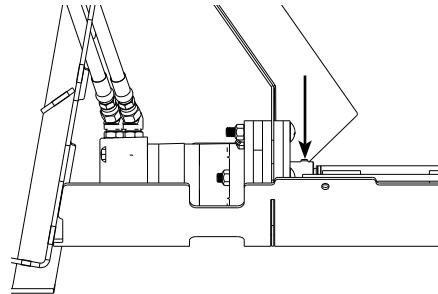
Use genuine Skid Pro replacement parts only. Substitute parts may not meet standards required for safe, dependable operation.

STEP 1: Lower the Mini Auger Mixing Bucket onto a flat, level surface.

STEP 2: Shut off the vehicle engine, relieve all hydraulic pressure, and remove the vehicle key before leaving the vehicle operator station.

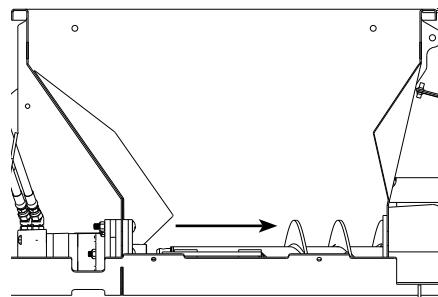
STEP 3: Open the safety grate.

STEP 4: Using a 5/16" punch and hammer, remove the roll pin in the auger collar.

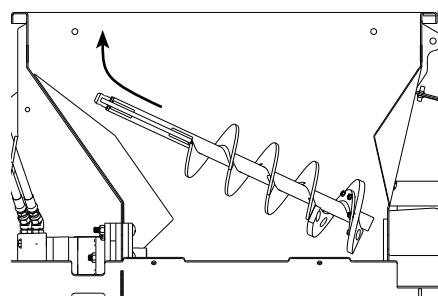


STEP 5: Close the gate on the discharge end by lifting on the handle and rotating it to the left or the right. Once closed, lower the handle and ensure it locks into one of the slots in the latch plate.

STEP 6: Slide the auger away from the motor until the collar clears the shaft.



STEP 7: Pull up and slide the auger toward the motor end of the bucket until the auger is free of the discharge tube.

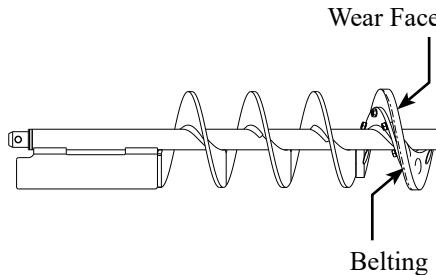


Service

Replacing Rubber Flight (continued)

STEP 8: Place the auger on a secure work platform. Use a hammer and chisel to remove the lock nuts from the flight.

STEP 9: Using the supplied hardware and a 7/16" wrench, replace the worn rubber flight. The wear face should be installed toward the discharge end of the bucket.



Service

Replacing Rubber Gate Seal

⚠ DANGER

**Never attempt
adjustments, service,
or repairs while the
equipment is in operation.**

⚠ DANGER

**Never allow anyone under
the attachment at any
time.**

⚠ DANGER

**Never work under
equipment supported
by hydraulics. Even
with the vehicle shut off,
equipment can suddenly
drop if controls are
actuated or if hydraulic
lines burst.**

Recommended Tools

- Hammer
- Chisel
- 7/16" wrench
- 3/4" wrench

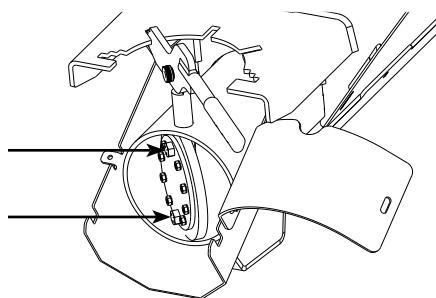
The Mini Auger Mixing Bucket is equipped with one (1) rubber seal at the discharge end of the auger. The disc should only be replaced when performance has been reduced.

STEP 1: Lower the Mini Auger Mixing Bucket onto a flat, level surface.

STEP 2: Shut off the vehicle engine, relieve all hydraulic pressure, and remove the vehicle key before leaving the vehicle operator station.

STEP 3: Remove the one (1) klik pin and lift the discharge rubber flap at the discharge end of the bucket.

STEP 4: Open the gate on the discharge end by lifting on the handle and rotating it to the left or the right. Rotate the gate until the heads of the two (2) 1 1/2" bolts can be accessed.



STEP 5: Using a 3/4" wrench, remove the two (2) bolts holding the gate seal and plate to the shaft.

STEP 6: Remove the gate seal and plate assembly from the bucket.

STEP 7: Using a 7/16" wrench or a hammer and a chisel, remove the 8 nuts and bolts holding the gate seal to the plate.

Service

Replacing Rubber Gate Seal (continued)

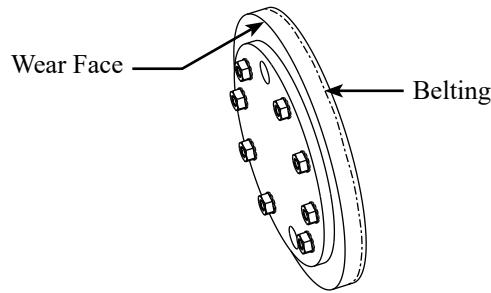
⚠ WARNING

Personal protection equipment including hard hat, safety glasses, safety shoes, gloves, and hearing protection are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

⚠ CAUTION

Always use two people to handle heavy, unwieldy components during assembly, installation, maintenance, service, removal, or movement of the attachment.

STEP 8: Using the supplied hardware and a 7/16" wrench, replace the worn rubber gate seal. The wear face should be installed toward the plate.



STEP 9: Reinstall the gate seal and plate assembly into the bucket using the supplied hardware and a 3/4" wrench. The rubber seal should be closest to the shaft.

STEP 10: Check the range of motion of the newly installed gate.

STEP 11: Close the discharge rubber flap and secure it with one (1) klik pin.

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Torque Values Chart

Torque Values Chart																	
Bolt Size (inches)	Bolt Head Identification								Bolt Size (Metric)	Bolt Head Identification							
	Grade 2	Grade 5	Grade 8	ASTM A574	5.8	8.8	8.8	10.9		12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
in-tpi	Nm	ft.-lb.	Nm	ft.-lb.	Nm	ft.-lb.	Nm	ft.-lb.	mm x pitch	Nm	ft.-lb.	Nm	ft.-lb.	Nm	ft.-lb.	Nm	ft.-lb.
1/4"-20	7.4	5.6	11	8	16	12	19	14	M5 x 0.8	4	3	6	5	9	7	11	8
1/4"-28	8.5	6	13	10	18	14	22	16	M6 x 1	7	5	11	8	15	11	18	13
5/16"-18	15	11	24	17	33	25	39	29	M8 x 1.25	17	12	26	19	36	27	42	31
5/16"-24	17	13	26	19	37	27	43	32	M8 x 1	18	13	28	21	39	29	46	34
3/8"-16	27	20	42	31	59	44	69	51	M10 x 1.5	33	24	52	39	72	53	84	62
3/8"-24	31	22	47	35	67	49	79	58	M10 x 0.75	39	29	61	45	85	62	98	72
7/16"-14	43	32	67	49	95	70	110	81	M12 x 1.75	58	42	91	67	125	93	148	109
7/16"-20	49	36	75	55	105	78	123	91	M12 x 1.5	60	44	95	70	130	97	153	113
1/2"-13	66	49	105	76	145	105	168	124	M12 x 1	90	66	105	77	145	105	167	123
1/2"-20	75	55	115	85	165	120	190	140	M14 x 2	92	68	145	105	200	150	235	173
Torque Values Chart																	
9/16"-12	95	70	150	110	210	155	235	173	M14 x 1.5	99	73	155	115	215	160	254	187
9/16"-18	105	79	165	120	235	170	262	193	M16 x 2	145	105	225	165	315	230	365	269
5/8"-11	130	97	205	150	285	210	323	238	M16 x 1.5	155	115	240	180	335	245	388	286
5/8"-18	150	110	230	170	325	240	366	270	M18 x 2.5	195	145	310	230	405	300	504	372
3/4"-10	235	170	360	265	510	375	574	423	M18 x 1.5	220	165	350	260	485	355	561	414
3/4"-16	260	190	405	295	570	420	640	472	M20 x 2.5	280	205	440	325	610	450	712	525
7/8"-9	225	165	585	430	820	605	925	682	M20 x 1.5	310	230	650	480	900	665	1052	776
7/8"-14	250	185	640	475	905	670	1020	752	M24 x 3	480	355	760	560	1050	780	1231	908
1"-8	340	250	875	645	1230	910	1386	1022	M24 x 2	525	390	830	610	1150	845	1337	986
1"-12	370	275	955	705	1350	995	1555	1147	M30 x 3.5	960	705	1510	1120	2100	1550	2447	1805
1-1/8"-7	480	355	1080	795	1750	1290	1971	1454	M30 x 2	1060	785	1680	1240	2320	1710	2706	1996
1-1/8"-12	540	395	1210	890	1960	1440	2202	1624	M36 x 3.5	1730	1270	2650	1950	3660	2700	4272	3151
1-1/4"-7	680	500	1520	1120	2460	1820	2771	2044	M36 x 2	1880	1380	2960	2190	4100	3220	5095	3758
1-1/4"-12	750	555	1680	1240	2730	2010	3068	2263	KEY: in-tpi = nominal thread diameter in inches—threads per inch Nm = Newton-meter ft.-lb. = foot pounds mm x pitch = nominal thread diameter in millimeters by thread pitch								
1-3/8"-6	890	655	1990	1470	3230	2380	3638	2683									
1-3/8"-12	1010	745	2270	1670	3680	2710	4143	3056									
1-1/2"-6	1180	870	2640	1950	4290	3160	4823	3557									
1-1/2"-12	1330	980	2970	2190	4820	3560	5426	4002									
Torque tolerance +0%, -15% of torque values. Unless otherwise specified, use torque values listed above.																	

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LIMITED WARRANTY

Skid Pro Machine Company, LLC ("Skid Pro") warrants its products, under normal use and maintenance, to be free from defects in material and workmanship for period(s) specified below from the purchase date from an authorized Skid Pro Dealer. Start of the warranty period is determined by purchase date given on your returned WARRANTY REGISTRATION FORM. Proof of purchase may be required. This Limited Warranty is extended only to the original purchaser of Skid Pro products.

Mini Auger Mixing Bucket - 1 Year

Wear Items Not Covered Under Warranty - Hydraulic Hoses, Seals, and Auger Flighting

1. During the applicable warranty period, Skid Pro, at its option, will repair or replace any part determined by Skid Pro to be defective. Such repair or replacement shall take place at Skid Pro's factory or a location designated by Danuser. Under no circumstances shall Skid Pro be obligated for the cost of any repair or replacement by anyone other than Skid Pro without its express written consent.
2. Parts may not be returned without written authorization from Skid Pro.
3. Some purchased components, including but not limited to hydraulic components, are subject to the inspection and warranty of the respective manufacturer. Thus, delays in a warranty determination can be expected while Skid Pro awaits their decision.
4. This warranty is void if any attempt is made to make field repairs to hydraulic components. To qualify for warranty inspection, the "failed" part(s) must be returned in its original "failed" condition.
5. To make a claim under this warranty, you may either contact your authorized Skid Pro Dealer or initiate a claim directly with Skid Pro. In either case, a Warranty Claim Form must be completed and written authorization from Skid Pro obtained prior to returning parts. All warranty claims must include detailed information regarding make and model of vehicle on which the Skid Pro product was mounted, hours of use, description of events that led up to the failure, and any other information helpful in reviewing the warranty claim. All warranty returns must be prepaid. Shipments arriving at our factory on a freight collect basis will be refused by our receiving department. The freight charge will be credited if the parts are determined by Skid Pro to be defective, and the associated freight costs in returning those parts will be prepaid by Skid Pro. NOTE: Hydraulic components must arrive with all ports sealed from dirt and moisture. If a hydraulic component arrives with open ports, the warranty is void and no inspection will be made.
6. Products or parts thereof, which, as determined by Skid Pro's examination, show wear from normal use, have been improperly operated, damaged by accident or negligence, field repaired, altered or modified are not considered defective in material and workmanship and are not covered by this warranty. This warranty does not apply to parts subject to normal wear ("Wear Items") or to damage caused by the failure to perform recommended maintenance or to replace worn parts. This warranty shall not obligate Skid Pro to bear any cost of labor for field repair, replacement, testing, or adjustment nor for damage caused by accident, abuse, misuse, or environmental elements.
7. Any parts or labor required to repair or replace parts not covered under this warranty will be charged to the customer. Parts repaired or replaced by Skid Pro are then covered by this warranty only for the remainder of the original warranty as if such parts were original parts.
8. Skid Pro reserves the right to change its specifications and designs at any time.

This warranty is exclusive and in lieu of all other express warranties, if any, including the implied warranties of merchantability and fitness for a particular purpose. It shall not extend beyond the duration of the expressed warranty provided herein and the remedy for violations of any implied warranty shall be limited to repair or replacement of the defective part pursuant to the terms contained herein. No employee, dealer, salesman, or representative is authorized to change this warranty in any way or grant any other warranty. Skid Pro shall not be liable for any consequential, incidental, or punitive damages, losses, or expenses, including those resulting from or caused by any defects.

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