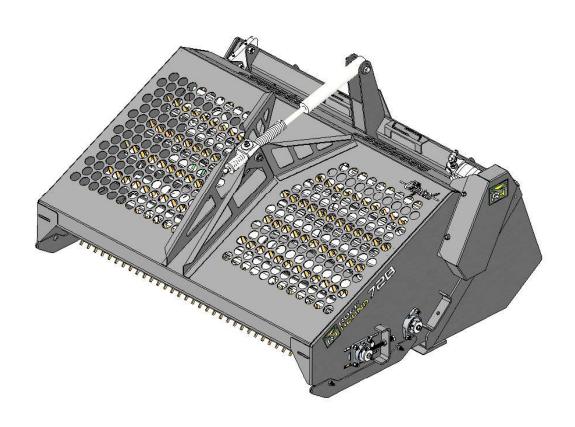
RockHound 72B Landscape Rake







RockHound 72B Landscape Rake



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CALIFORNIA PROPOSITION 65

MARNING ADVERTE

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

ADVERTENCIA: Cáncer y Dãno Reproductivo - www.65Warnings.ca.gov.

Thank You

Dear Customer,

We appreciate your purchase of a Rockhound attachment. The purpose of this manual is to familiarize you with the operation, adjustment, and maintenance of your new attachment.

It was meticulously designed and constructed in accordance with highest industry standards to provide you with years of dependable service. Before endeavoring to operate the machine, you must read this manual thoroughly and comprehend its operation. Rockhound reserves the right to make modifications to design and specifications, as well as additions and enhancement its product, without incurring any obligation to retrofit previously manufactured items. If you ever require additional information, please contact your authorized dealer or customer service.





PO Box 220 | 2507 Tully Road | Hughson, CA 95326 1-800-426-5615 www.valleytoolmfg.com Rockhound designed this attachment with operator safety as one of its primary considerations. This attachment was designed with shielding, simple adjustments, and other safety features whenever practicable. Ensure that you and your employees read and comprehend this manual. Only responsible individuals who have been trained to operate in a secure manner and who have read and comprehend this manual should operate any machinery.

Before accepting the equipment, verify the pre-delivery checklist thoroughly with the sales representative. See Pg.8

Ensure that you have a comprehensive understanding of the operation, adjustment, and safety principles outlines in this manual.

Rockhound is solely owned by Valley Tool and Manufacturing.

Visit: www.valleytoolmfg.com





Warranty

Valley Tool & Mfg. warrants each product to be free of manufacturing defects for a period of twelve months (ninety days for rental units) from the date of delivery to the original user/owner, subject to the limitations stated in this policy.

This warranty does not apply to defects caused in whole or in part by unreasonable use while the product is in the user's possession, including but not limited to: failure to properly set up product; failure to provide reasonable and necessary maintenance; normal wear; routine tune ups or adjustments; improper handling or accidents; operation at speed load conditions contrary to published specifications; improper or insufficient lubrication; improper storage. This warranty also does not guarantee that the efficacy of every product will meet the purchaser's expectations.

ValleyTool&Mfg. shall not be liable for consequential damages of any kind, including, but not limited to, consequential labor costs or transportation charges associated with replacement or repair of defective parts; lost time or expenses incurred as a result of said defects. Valley Tool & Mfg's total liability is limited to the purchase price of the product.

Valley Tool & Mfg. provides no warranty for trade accessories or any component or accessory of the product that was not manufactured by Valley Tool & Mfg., including any purchased components, These are subject to the respective manufacturer's warranties. If the product or any part of the product is modified or repaired in any manner not expressly authorized by Valley Tool & Mfg., or if closed components are disassembled prior to return, the warranty will be void. Closed components include gearboxes, hydraulic pumps, motors, cylinders, and actuators, among others.

Our obligation under the warranty is expressly limited, at out option, to the replacement or repair at Valley Tool & Mfg., of Hughson, California, or at a service specified by us, of the defective part or parts as determined by inspction.

We are not liable for unauthorized replacements or repairs. Warranty pre-approval is required. Authorized supplies will be sent to the dealer at no cost via UPS Ground. The durations of any implied or statutory warranties, such warranties of merchantability or fitness for a particular purpose, is expressly limited to the durations of this written warranty. No one is authorized to make any other express or implied warranties on our behalf. This warranty will not be processed without a timely, signed "Product Registration"

The attachment owner is responsible for the travel time of mechanics and conveyance of the product to the authorized service dealer for warranty work.

The most reasonable and dealer friendly return policy on the market is provided by Valley Tool & Mfg. The return policies for each of our brands are listed below. We accept returns within 30 days of the date of original shipment, all returns must be approved by Valley Tool & Mfg, and a return authorization number must be issued. Returns must be in "like-new" condition and accompanied by all original factory packaging, including instruction manuals. If an item is received that is not in "like-new" condition or in its original packaging, additional fees will apply. After our staff has completed a thorough inspection of a return, refunds will be issued less shipping fees and any other potential damage fees. Please allow up to 30 business days for the processing of your account refund credit.

Please direct all return-related questions to sales@valleytoolmfg.com.

Safety

Failure to heed any of theses warnings may result in personal injury or death.

A. Operational Safety

Before operating this machinery read the owner's manual thoroughly.

Do NOT operate this machine without proper training. It is the Owner's responsibility to ensure all Operators are properly trained in the appropriate language.

Use OSHA approved eye, ear and head protection to protect the Operator from flying debris and noise.

Avoid wearing loose clothing as it can inadvertently drawn into moving parts. Never use drugs or alcohol before or during operation of this machine.

Only operate this machine when it is in good working order on an appropriate power unit that it in good working order, and with all guards and safety devices in place and functioning.

Be aware of the machine's weight and its effect on the stability of the power unit.

Use flashing warning lights when operating on highways, except when prohibited by law.

Always inspect area to be worked to ensure that the job sites is free from obstacles and debris that could injure the operator or damage the machine.

Under no circumstances should the blade of this machine come into contact with ground or should the machine be curled in a such a way that the blades become visible to the operator.

Avoid running the machine along the ground in rocky areas as this could create dangerous discharge.

Keep bystanders and children clear of the work area during operation as debris can be discharges in a dangerous manner.

Never allow children or other persons to ride this machine.

Avoid operation that would allow hydraulic lines to be pinched or served. In the event of a hydraulic leak, hydraulic fluid may have sufficient force to penetrate skin. Hydraulic injection injury requires immediate medical attention.

Be aware of the risks of equipment and grass fires.

To mitigate those risks:

- Do not smoke or have an open flame in the work area.
- Do not operate in areas that have been freshly burned or are still burning.
- Do not allow clippings/debris to collect near hydraulic components or bearings.
- Avoid areas with high fire risk: dry grass, brush or trees.

Safety

Operation of this machine should be stopped immediately if the Operator's vision becomes obscured by the discharge of debris and dust. Also avoid operating this machine in usually foggy or dusty conditions or at night.

Keep away from the machine until all the energy has dissipated. This includes the complete stopping of the drum's rotation as well as the dissipation of pressure in the hydraulic lines.

In the event that a failure does occur during operation or if the machine begins to produce excessive noise or vibration, shut the machine down immediately and repair before continued use.

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

B. Maintenance Safety

Before performing maintenance on this machine read the owner's manual thoroughly.

Maintenance should only be performed by properly trained individuals. It is the owner's responsibility to ensure all individuals are involved in maintaining the machine are properly trained in the appropriate language.

Be sure to inspect all safety devices before each use. If safety devices are worn in such a way that they can no longer properly perform their guarding function, contact your nearest Rockhound dealer for replacements.

Maintain all safety decals and make sure they are visible to the operator. If decals are worn, contact your nearest Rockhound dealer for replacements.

Wear gloves and eye protection and exercise care when handling moving parts as they can be sharp. Also be alert to worn or damaged surfaces that could have sharp edges.

Disengage hydraulics, shut off engine and allow all movement to stop before leaving the operator's position to adjust, lubricate, clean or unclog the machine. Do not try to uncouple hydraulic hoses unless the pressure has adequately dissipated.

Before working on or underneath the machine place wheel chocks in front and back of power unit's tires or treads and under each end of the attachment to prevent accidental lowering of the machine. Also, remove the ignition key from the power unit and allow all movement to stop before beginning work.

A. Setting Up (Before First Operation)

The Rockhound is delivered completely assembled.

Pre-Delivery Checklist

Check all nuts and bolts for correct torque.

Check for shipping damage. If damaged, do not use the attachment until parts have been replaced or repaired.

Check that all hydraulic hoses and fittings are tight.

Check that all warning signs (decals) and safety treads are on the attachment and in their correct location. Replace any damaged signs or safety treads.

Drive the machine to the Rockhound and align the machine to the frame for connection. Stop the engine, exit the machine, and secure the Rockhound mounting frame to the machine.

Warning: Make sure to securely latch the attachment to the machine. An unsecure latch can result in injury or death.

Operating the Rockhound (SKID STEER)

Remove large branches and stones (6 in [150 mm] diameter or larger) before raking area.

Note: If ground is extremely compacted, use an attachment such as a tiller or scarifier to loosen the ground at least 4 inches (102 mm) in depth.

Recommended Raking Procedure

With the operator in the seat, seat belt fastened and seat bar lowered, start the engine.

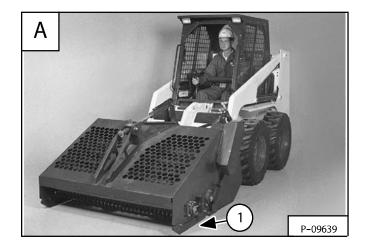
Tilt the rake attachment back with the loader tilt cylinder and move the rake attachment to the starting point.

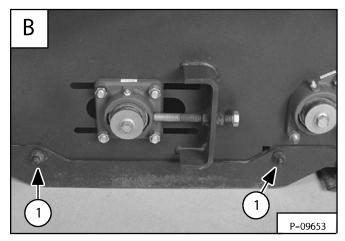
Tilt the rake attachment forward until the runners (Item 1) [A] are touching the ground.

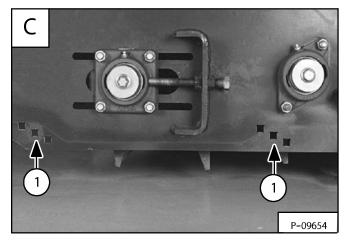
Engage the auxiliary hydraulics.

Lower the rake bars to the ground and engage the float. While operating, drive backwards at slow rate.

Control ground penetration by removing the runner bolts (Item 1) and reposition the runners in any of the mounting holes (Item 1) [C] needed.







Warning: To avoid injury or death bystanders must stay at least 10ft away from rake when operating. DO NOT leave the loader seat while the engine is running.

Operating the Rockhound (Skid Steer Loaders) (Continued)

Use the tilt control cylinder to tilt the Rockhound up or down as needed during raking.

Note: Soil conditions may require multiple passes.

Note: Refer to your machines Operation and Maintenance Manual for the hydraulic connections and the correct function of the controls.

Dumping the Rockhound

When the material begins to bounce out of the bucket and up against the screen, the bucket is full.

Lift the Rockhound slightly off the ground, carry the load low, and drive to the dump sight.

Move the control to retract the cylinder and open the Rockhound [A].

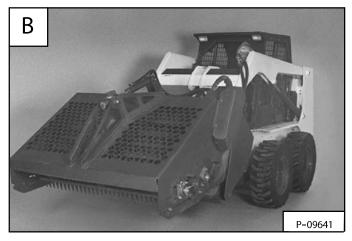
Raise the Rockhound and tilt it forward until all the debris is removed from the bucket [B].

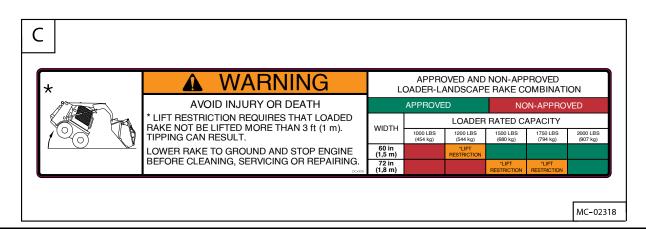
Extend the cylinder to close the Rockhound. Tilt the bucket back until the Rockhound is level with the ground.

Return to the landscaping site, lower the Rockhound to the ground, and continue raking.

Note: Some Loader/Rockhound combinations have a lift restriction. See the decal below [C] mounted on the attachment for precautions.



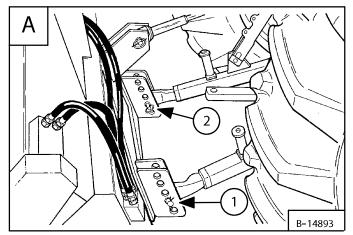




Mounting the Rockhound - 3 Point Hitch (Category 1) Equipped

Drive the tractor backwards to the Rockhound Attachment equipped with the 3-point hitch mounting bracket.

Align the two lower links of the 3-Point Hitch with the lower link mounts (item 1) [A] on the mounting bracket.



Install a pin in each lower link and link mounting bracket to fasten the 3-Point Hitch links to the Rockhound.

Note: See your dealer to obtain two 7/8 inch x 3-3/4 inch pins with pin clips.

Note: The top link cylinder is available in a 12 inch and 14 inch length.

Install the top link cylinder (Item 1) [B] with the base end fastened to the tractor.

Align the rod end of the cylinder with the upper link mount (Item 2) [B] on the Rockhound.

Note: Obtain one 3/4 inch x 3-3/4 inch pin with clips locally.

Install the Rockhound control valve in a position which will allow access for the operator.

Note: Obtain the correct hoses and quick couplers locally. Always fully engage quick couplers. If the couplers do not fully engage, check the coupler sizes. Do not force the quick couplers together.

Install a supply hose from the tractor control valve to the rockhound control valve.

Connect a return hose to the Rockhound control valve and route the hose to reservoir.

Connect the dump cylinder hoses to the Rockhound control valve.

Install the correct length auxiliary hoses to the port block on the Rockhound. Route the hoses to the Rockhound control valve.

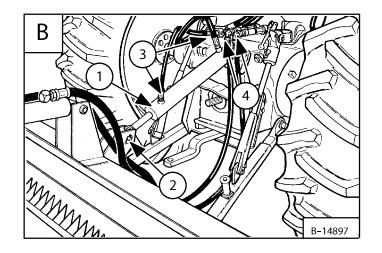
Note: See pages 11 and 12 to determine the type of hydraulic system your tractor is equipped with. Use the illustration for correct hydraulic routing.

Travel	Extended Length	Length
12 inch	34.25 inches	22.25 inches
(308 mm)	(870 mm)	(565 mm)
14 inch	38.25 inches	24.25 inches
(355 mm)	(972 mm)	(616 mm)

Culinday Dad

Note: Obtain one 3/4 inch x 3-3/4 inch pin with clips locally.

Install the Rockhound control valve in a position which will allow access for the operator.



Mounting The Rockhound - 3 point Hitch (Category 1) Equipped (Continued)

Hydraulic Installation

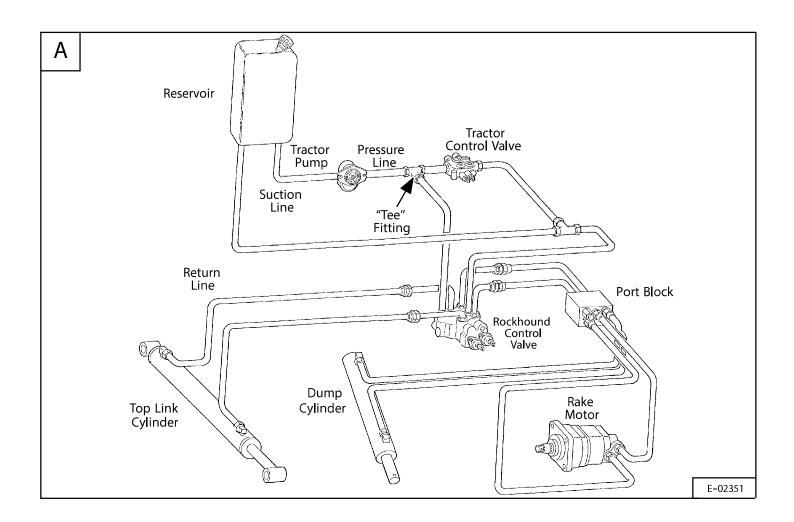
Two auxiliary controls are needed for installation using a 3-Point Hitch. One drives the hydraulic motor and the rake chain. The other is connected to the top link cylinder at the upper mount and is used for dumping the bucket.

A two-section control valve and hydraulic cylinder are available from your dealer if needed. Your dealer can also assist you in correct hydraulic installation.

Closed Center Hydraulic System

A closed center system does not allow pressurized flow through the loader/tractor control valve. In this type of system, it is necessary to put a Tee fitting in the hydraulic link between the pump outlet and the control valve inlet to provide flow to the Rockhound control Valve [A].

The control valve should be a closed-center valve. The valve available from your Rockhound dealer can be easily converted to closed-center.

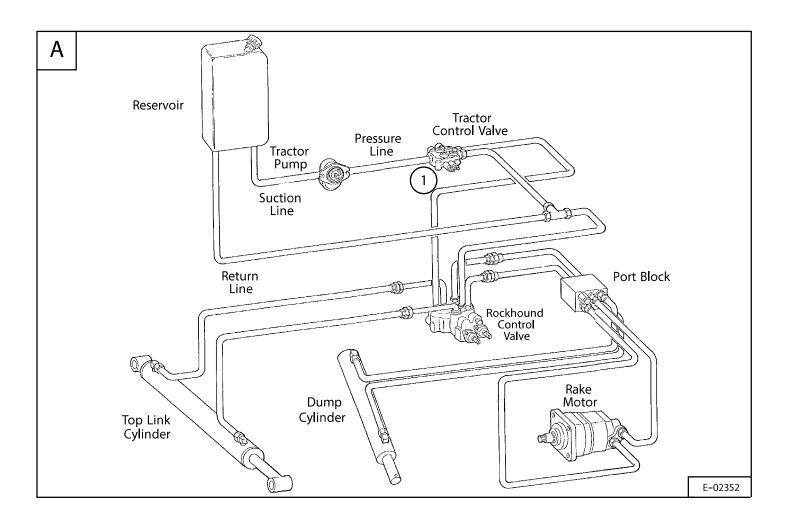


Mounting The Rockhound - 3-Point Hitch (Category 1) Equipped (Continued)

Open Center Hydraulic System

An open center system allows pressurized flow through the loader valve. In this type of system the Rockhound control valve is pressurized from the power beyond port of the tractor control valve (Item 1) [A].

This will allow the Rockhound to be lifted or adjusted for depth of raking, while the motor continues running.



Operating The Rockhound - 3-Point Hitch

Ground Preparation

Thoroughly inspect the ground before raking

Remove large branches and stones which are 6 inches or larger.

Checking Rockhound Operation

See your tractor Operation and Maintenance Manual for safe operating procedures for your tractor/ loader.

Before operating the rake attachment, see Daily Inspection on Page 18.

Warning: Bystanders must stay at least 10 ft away from the rake when operating.

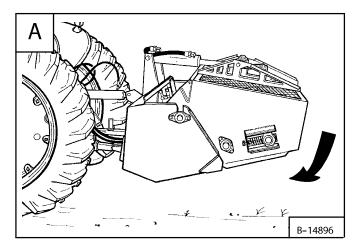
Raise the rake off the ground.

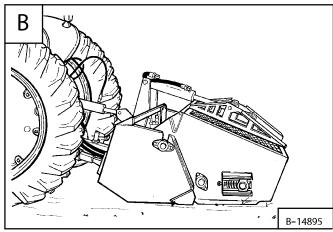
Engage the control valve for the rake chain.

Note: The rake chain should move in the direction of the arrow [A]

Run the rake and check for excessive noise, locate the cause and repair or replace parts as needed.

When the rake chain moves freely, lower the rake to the ground [B]. Stop the loader engine.





Operating The Rockhound - 3- Point Hitch (Category 1) Equipped (Continued)

Operating The Rockhound

See your Tractor Operation and Maintenance Manual for safe operating procedures for your tractor/loader

Raise the rake off the ground and drive to the starting point.

Slowly lower the rake to the ground keeping the rake level with the ground

Engage control valve for the rake chain.

Drive the tractor forward at 1.5 MPH or less

Control the amount of ground penetration by operating the top link cylinder (Item 1) [A].

Note: Some conditions may require use of the rake several times on the same area to get the results desired.

Dumping the Bucket

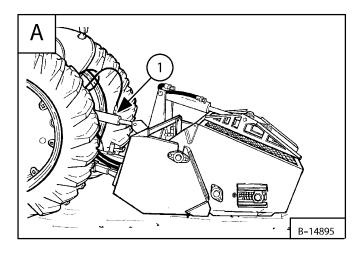
When rocks begin to bounce out of the bucket and up against the screen, the rake is full.

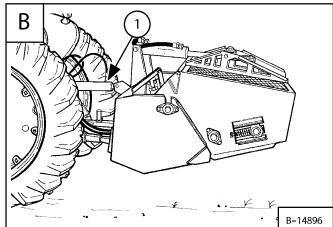
Disengage the rake chain and retract the top link cylinder.

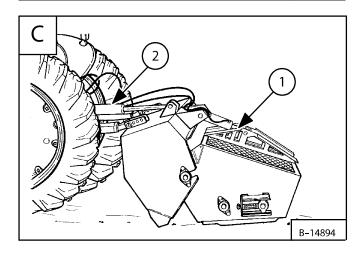
Raise the rake no more than 12 inches off the ground when transporting the debris to the dump site.

Stop the tractor and raise the 3-Point Hitch all the way.

Retract the rake cylinder (Item 1) [C] to open the rake, and extend the upper link cylinder (Item 2) [C] to dump the debris from the bucket.







Operating The Rockhound - 3- Point Hitch (Category 1) Equipped (Continued)

Bucket Dump Adjustment

Start the tractor engine and raise the 3-point hitch all the way.

Extend the top link cylinder to dump the bucket.

When the rake cylinder is fully retracted the bucket will open.

The rake stops should just touch the bucket frame.

The cutting edge of the bucket should not hit the ground.

If the bucket does not dump properly, adjustment is necessary.

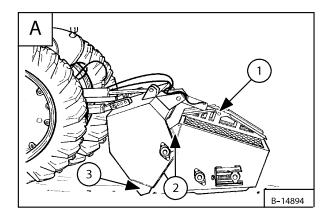
If the rake does not open far enough for the stops to touch the bucket frame, adjust the 3-Point Hitch arms to a higher position on the bucket mounting brackets.

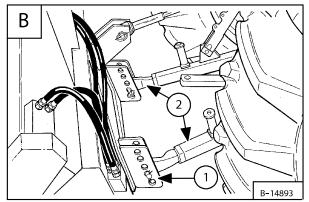
If the cutting edge hits the ground, adjust the arms to a lower position on the bucket mounting brackets.

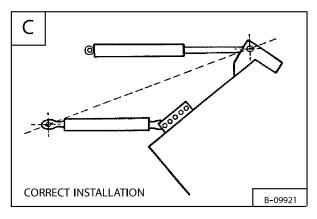
Note: Also refer to your tractor Manual to adjust the 3-Point Hitch

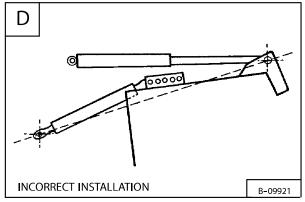
Important: Be sure that the 3-Point Hitch is adjusted correctly. Damage to the hydraulic cylinder can result if adjustment is not correct.

Do not adjust the 3-Point Hitch so that the lower points of the 3-point arms go over center [C] and [D].









Transportation

Transporting The Rockhound

Lifting the Rockhound

Note: Use chains that are in good condition and of adequate size to lift or secure the attachment.

Hook each end of the chain (Item 1) [A] to the lifting slots in the Rockhound frame.

Chaining the Rockhound

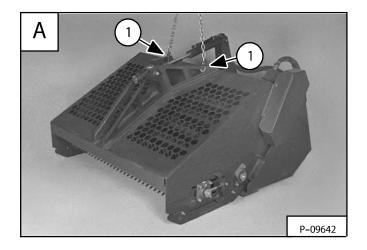
Use a loader or chain hoist to load the Rockhound onto the transport vehicle.

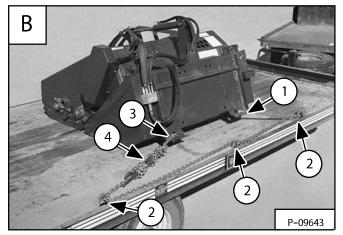
Hook a chain (Item 1) [B] to the rear of the Rockhound frame, route the chain through the eyes (Item 2) [B] and hook the chain back to the Rockhound frame.

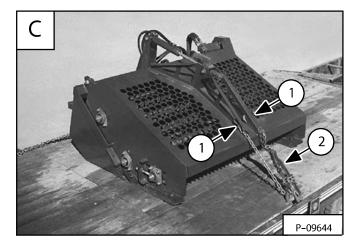
Use a chain binder (Item 3) [B] to secure the chain and prevent the Rockhound from moving during transportation.

Hook each end of a chain (Item 1) [C] to the front slot in the Rockhound frame, route the chain throughout the eye on the transport vehicle.

Use a chain binder (Item 2) [C] to secure the chain and prevent the Rockhound from moving during transportation.







Transportation

Transporting The Rockhound (Continued)

Loading the Rockhound Onto Transport Vehicle

The rear of the trailer must be properly blocked or supported when loading or unloading the equipment.

With the Rockhound attached to the power unit, drive the loader onto the transport vehicle in a forward direction. (Rockhound first) [A].

Lower the Rockhound to the transport vehicle.

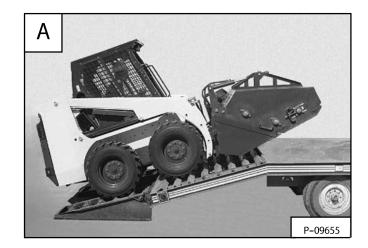
Engage the parking brake and stop the engine.

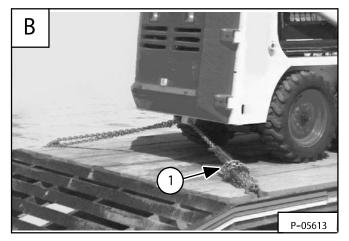
Install tie-down chains and binders to prevent the loader and Rockhound from moving during transportation.

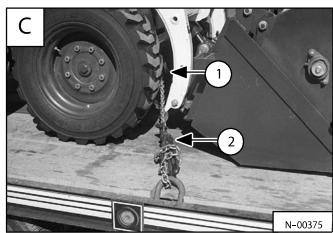
Install a chain to the rear of the power unit [B].

Use a chain binder (Item 2) [B] to secure the chain and prevent the power unit/Rockhound from moving during transportation.

Install a chain through a front tie-down (Item 1) [C] on the power unit when the Rockhound is attached.







Service Schedule

Maintenance work must be done at regular intervals. Failure to do so can result in damage to the rake attachment. This service schedule is a guide for correct maintenance of the rake attachment.

Warning:Instructions are necessary before doing service on the Rockhound attachment. See warnings and instructions both at beginning and throughout this manual. After servicing, repairing or adjusting, always check for correct function of the Rockhound.

Daily Inspection:

- 1. Clean the rake attachment to keep it free of material build up.
- 2. Lubricate the 10 grease fittings (one fitting located under the chain guard).
- 3. Check all nuts, bolts, and guards for tightness.
- 4. Check safety signs (decals) and safety treads for damage. Replace if damaged, clean if soiled.
- 5. Check all hydraulic hoses and fittings.
- 6. Check for loose or damaged parts.

25 Hour Inspection:

- 1. Remove the bolts on the chain guard, wipe clean and lubricate the chain. Check the chain for the correct tension (a half link can be removed). Install chain guard before operation.
- 2. Adjust the tension of the Rockhound chain.
- 3. Check idler alignment to make sure the Rockhound chain is traveling on the center of each idler.

300 Hour Inspection:

- 1. Check the Rockhound teeth. The Rockhound teeth are 3 inches long when new, if the Rockhound teeth show wear 1/4 inch or more, the Rockhound tooth should be hard surfaced with a hard surface welding rod.
- 2. Check for bent Rockhound teeth. Bent Rockhound teeth can usually be straightened again. Do not use heat to straighten teeth, Heat will cause the hardened teeth to become soft.
- 3. Check chain and sprocket for wear. Replace the parts as needed.

Warning: Avoid Injury or Death

Before cleaning, servicing or repairing the Rockhound attachment:

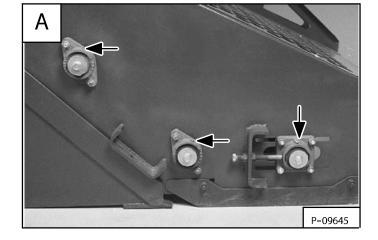
- Level and lower the attachment to the ground.
- Stop the engine.
- Release pressure in all hydraulic circuits.

TROUBLESHOOTING

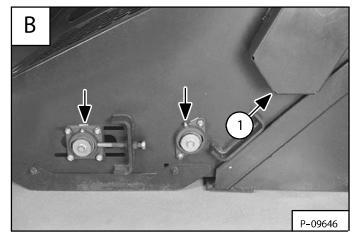
PROBLEM	CAUSE	CORRECTION	
Rockhound chain does not turn.	Faulty drive motor.	Repair or replace motor.	
	Key sheared.	Replace key.	
	Drive chain on hydraulic motor is broken or loose.	Replace the chain or adjust as needed.	
	Drive sprocket is off the shaft.	Install the drive sprocket and tighte bolt.	
	Auxiliary hydraulics are not activated.	Activate auxiliary hydraulics	
	Faulty loader valve.	Repair loader valve.	
Rockhound chain comes off sprocket. "Adjust chain tension as shown on Pg.33"	Rockhound chain is too loose.	Adjust the Rockhound chain tension.	
Rockhound chain jumps irregularly.	Stone is lodged in link of chain.	Remove the stone.	
	Sprockets are worn.	Replace worn sprocket. Replace worn chain sections.	
Rockhound chain runs too fast.	Rockhound attachment has been mounted on a loader with too much hydraulic flow.	Install the correct sprockets, chain & drive kit. Run at slower engine speed. Drive shaft 200 RPM max.	

Rockhound Lubrication

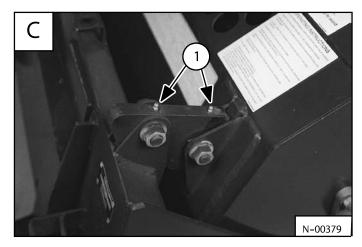
Lubricate the grease fittings on the Rockhound chain mounting bearings every 8 hours. [A] & [B].



Note: The grease fitting on the drive sprocket bearing is located under the drive motor shield (Item 1) [B].



Lubricate the grease fittings (Item 1) [C] on the Rockhound hinges.



Rockhound Cylinder

Removal and Installation

Note: Be sure to fully extend the cylinder before stopping the loader engine. Exit the loader.

Disconnect the hydraulic hoses (Item 1) [A] from the cylinder.

Remove the mounting nut (Item 2) [A] and bolt from the cylinder base end mounting bracket.

Note: Apply anti-seize compound to the pivot bolt shank and nut during assembly.

Install a wrench (item 1) [B] on the cylinder rod flats while removing the nut (Item 2) [B] and washer.

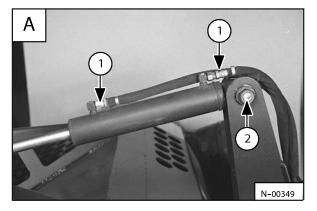
Installation: Tighten the nut to 125-140 ft.-lbs torque.

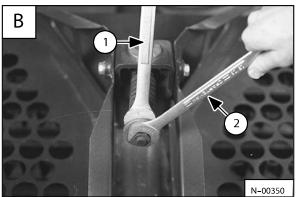
Remove the spring, check the condition of the rod, slide the rod from the rod guide (Item 1) [C] and remove the cylinder from the attachment.

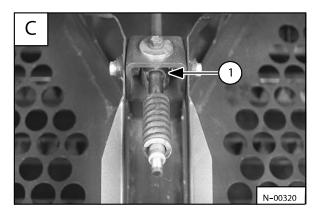
Inspect the cylinder for wear or damage and replace if necessary.

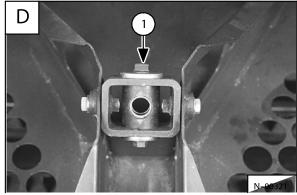
Cylinder Rod Guide Removal and Installation

Remove the bushing mounting bolt (Item1) [D] and inspect the bushing for wear or damage. Replace if necessary.









Rockhound Cylinder (Continued)

Cylinder Rod Guide Removal and Installation (Continued)

Note: The rod wipers can be removed from the guide while on the Rockhound. The guide is removed for clarity.

Remove the rod wipers (Item1) [A] from the guide.

When installing the rod wipers, the lip must be toward the outside of the guide [B].



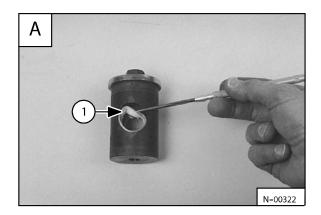
Remove the bolts (item 1) [C] from the pivot bushings.

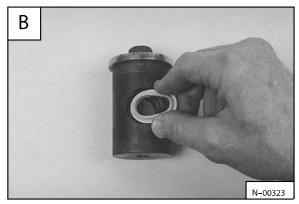
Installation: Use anti-seize on the bolts and nuts during assembly.

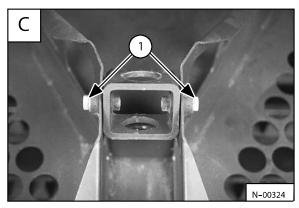
Remove the pivot bushings (Item 1) [D] from the frame.

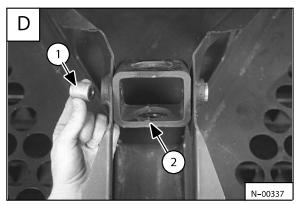
Remove the housing (Item 2) [D].

Installation: Use anti-seize on the pivot bushings during assembly.









Drive Motor

Drive Chain Adjustment

Remove the four bolts (Item 1) [A] from the motor shield.

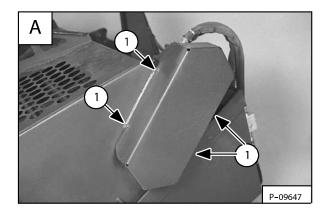
Loosen the idle sprocket bolt (Item 1) [B] and move the idle sprocket bolt (Item 1) [B] and move the idle sprocket to adjust the chain tension to be 1/2 inch deflection in the middle of the chain.

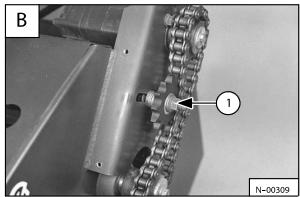
Drive Chain Removal and Installation

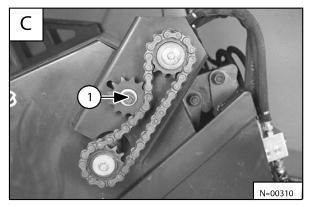
Loosen the idle sprocket bolt (Item 1) [C] and slide the sprocket away from the chain.

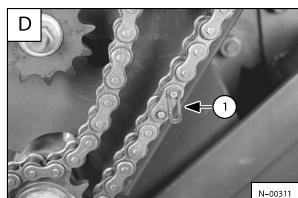
Installation: Install the same number of washers (Item 1) [C] behind the sprocket during assembly.

Remove the clip (Item1) [D] from the chain link.









Drive Motor (Continued)

Drive Chain Removal and Installation (Continued)

Remove the retainer [A].

Separate the drive chain and the link [B].

Remove the drive chain from the sprockets.

Drive Motor Removal and Installation

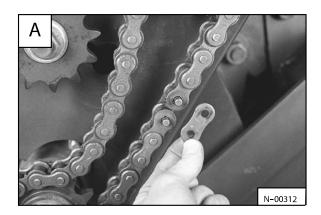
Remove the drive motor shield.

Remove the drive chain.

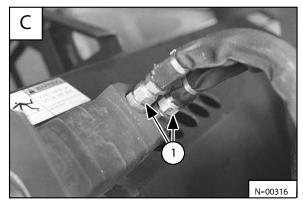
Remove the hoses (Item1) [C] from the drive motor.

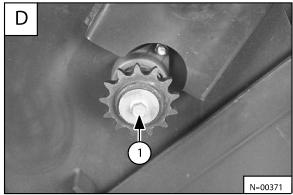
Remove the bolt (Item 1) [D] and washer from the drive sprocket.

Installation: Tighten the bolt to 65-70 ft.-lbs torque.









Drive Motor (Continued)

Drive Motor Removal and Installation (Continued)

Remove the drive sprocket (Item 1) [A] from the motor shaft.

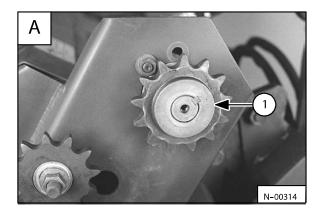
Installation: Use anti-seize on the drive motor shaft during sprocket installation.

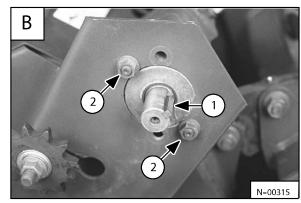
Remove the key (Item1) [B] from the drive motor shaft.

Remove the two nuts (Item 2) [B] from the motor mounting bolts.

Installation: Tighten the nuts to 25-28 ft.-lbs torque.

Remove the drive motor from the Rockhound.





Port Block

Relief Valve Removal and Installation

The relief valve (Item 1) [A] is located on top of the port block.

Note: See your dealer for the correct supply hoses and fittings.

Removal and Installation

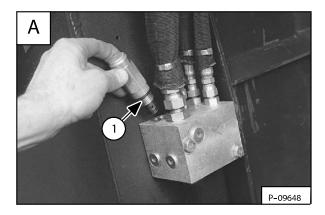
Mark the hoses on the port block for correct location during assembly [B].

Install plugs in the hoses and caps on the port block fittings to prevent contamination [C].

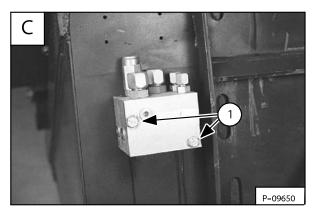
Remove the mounting bolts (Item 1) [C] from the port block.

Remove the port block from the bucket.

Clean the port block before disassembly. Check and replace the parts as needed. Always use new O-rings when assembling the port block.







Port Block (Continued)

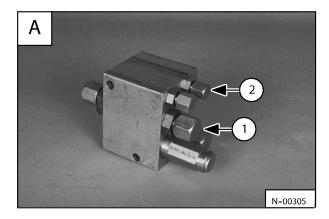
Check Valve Removal and Installation

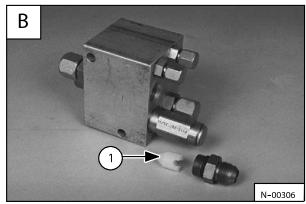
Note: The port block contains an internal check valve and a 0.070 inch orifice to control the action of the Rockhound cylinder.

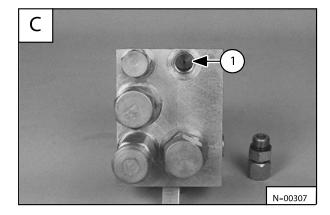
Remove the fitting (Item 1) [A] to access the check valve

Remove the check valve (Item 1) [B] and replace of damaged.

Remove the fitting (Item 2) [A] and check that the 0.070 inch orifice (Item 1) [C] is clear of obstructions.







Hinges

Removal and Installation

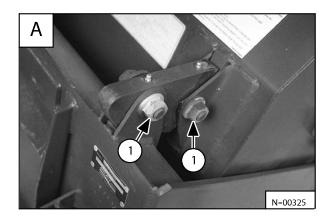
Remove the nuts (Item 1) [A] from the hinge bolts (both hinges).

Remove the hinge bolts (both hinges) [B].

Remove the hinge(s) from the frame [C].

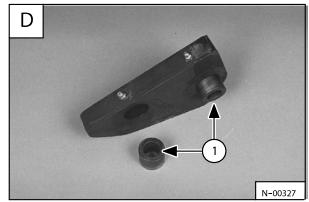
Remove the bushings (Item 1) [D] from the hinges.

Assembly: Apply grease to all surfaces of the bushings during assembly.









Rockhound Bearings

Removal and Installation

Note: The bearing removal procedure, from the bearing housings, is the same for all bearings.

Loosen nuts (Item 1) [A] and back the adjustment bolt (Item 2) to release the tension on the Rockhound chain.

Remove the bolt (Item 3) [A] and washer from the shaft.

Assembly: Use anti-seize on the bearing surfaces of all shafts.

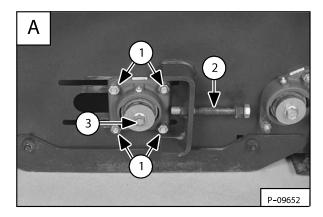
Pivot the bearing (Item 1) [B] until it aligns with the slots in the housing (Item 2) [B].

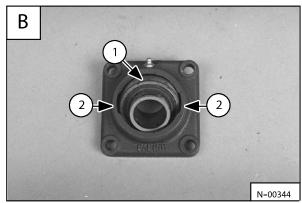
Remove the bearing (Item 1) [C] from the bearing housing.

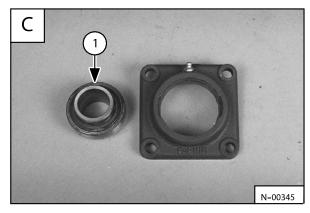
Assembly: Apply grease to the bearing race and the bearing surface in the housing.

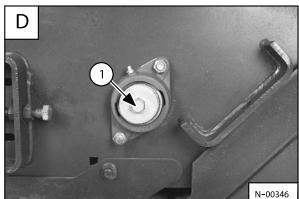
Remove the bolt and washer (Item 1) [D] from the idler shaft.

Installation: Tighten the bolt to 65-70 ft.-lbs torque.









Rockhound Bearings (Continued)

Removal and Installation (Continued)

Remove the nuts (Item 1) [A] from the bearing housing bolts.

To remove the bearing from the drive shaft, the drive sprockets must first be removed.

Remove the bolt (Item 1) [B] and washer.

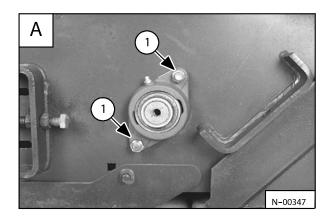
Installation: Tighten the bolt to 65-70 ft.-lbs torque.

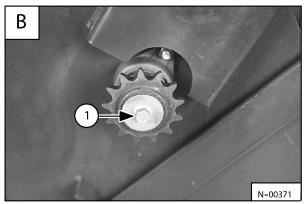
Remove the drive sprocket (Item 1) [C] and key (Item2) [C].

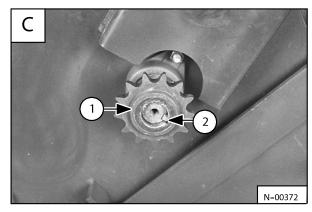
Remove the nuts (Item 1) [D] from the bearing housing bolts.

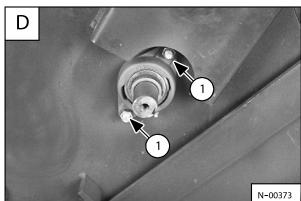
Remove the bearing housing from the frame,.

Remove the bearing from the housing.









Rockhound Chain Removal and Installation

Note: The chain removal procedure is done using an overhead hoist and the Rockhound positioned upside down.

Remove the shield from the drive motor.

Remove the drive motor chain.

Remove the hydraulic hoses from the motor.

Remove the cylinder.

Remove the hinges.

Install chains (Item 1) [A] in the slots of the frame, and use a hoist to separate the Rockhound frame from the bucket.

By repositioning the chains in the slots (Item1) [B] toward the front of the Rockhound frame, a hoist can be used to stand the Rockhound frame on its back edge as shown.

Continue to pull the Rockhound frame into the upside down position. The Rockhound frame will be stable in this position for chain removal.

Position the master links to the top. Release the tension fully from the Rockhound chain.

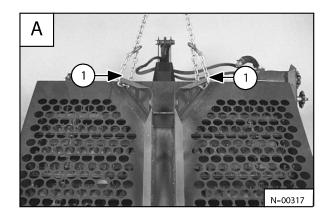
Wrap a chain (Item1) [C] around (3) bars (with the master links enclosed). Using a hoist to lift the chain will squeeze the bars together.

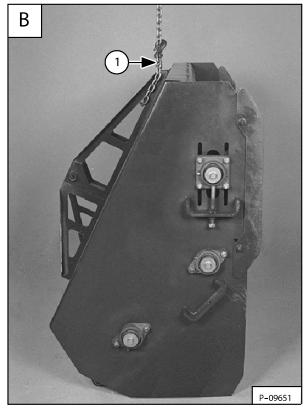
Warning: To Avoid Injury do not attempt to separate the rake chain master links by standing under or reaching under the attachment. The Rockhound chain can suddenly separate and shift when the chain master links are removed. Use a chain or other restraining device to hold the rake bars together before removing the master links.

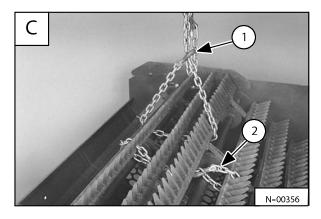
Note: The hoist will need to be repositioned for Rockhound chain removal.

Install a safety chain (Item 2) [C] to prevent the bars from separating while repositioning the hoist chain.

Lower the hoist chain until the safety chain is holding the Rockhound chain in a secure position.







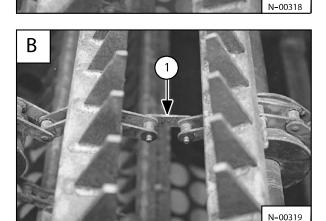
Rockhound Chain (Continued)

Removal and Installation (Continued)

Remove the cotter pin (Item 1) [A] from the retainer.

Remove the retainer (Item 2) [A] from the three master links.

Remove the link (Item 1) [B] from the three chain connectors.

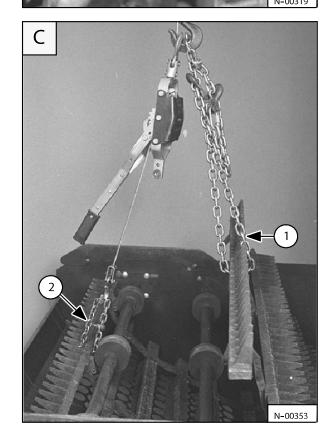


Connect a chain hoist to the last bar (Item1) [C] on one end of the Rockhound chain, and connect a cable puller (Item 2) [C] to the last bar on the other end of the Rockound chain.

Raise the hoist to release the safety chain from the chain hoist.

When lowered enough, one end of the Rockhound chain can be laid over the front of the Rockhound frame and the other end can be laid over the rear of the frame.

Installation: Use the reverse procedure to install the Rockhound chain. Use the chain hoist and cable puller for the installation of the chain. Use a safety chain for the master link connection.



Rockhound Chain (Coninued)

Removal and Installation (Continued)

Remove the bearings from the shafts.

Remove the shafts from the frame [A].

Remove the Rockhound chain from the Rockhound frame [B].

Installation: Use the reverse procedure to install the Rockhound chain. Use the chain hoist and cable puller for the installation of the chain. Use a safety chain for the master link connection.

Replacing Chain Bars

If a bar becomes damaged. See your dealer for a replacement bar and chain assembly.

Remove the Rockhound chain assembly from the frame and lay the assembly on the floor.

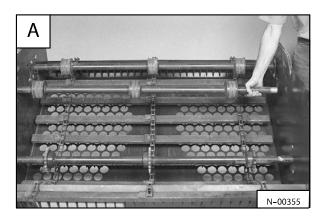
Warning: Wear safety glasses to prevent eye injury when any of the following conditions exist:

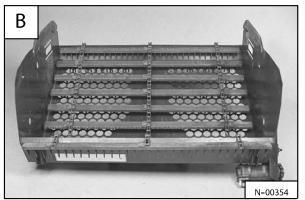
- When flying fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running
- Tools are being used.

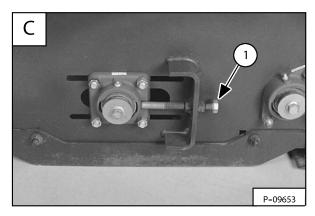
Use the link, retainer, and cotter pin from the bar and chain assembly to install the replacement bar.

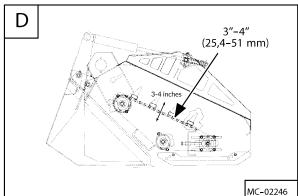
Adjusting the Rockhound Chain

Tighten the bolt (Item1) [C] until there is 3-4 inches deflection in the middle of the chain [D].









Hydraulic Motor

Recommend only replacing shaft seal on motor

Internal parts to be treated as consumable.

Shaft Seal Replacement

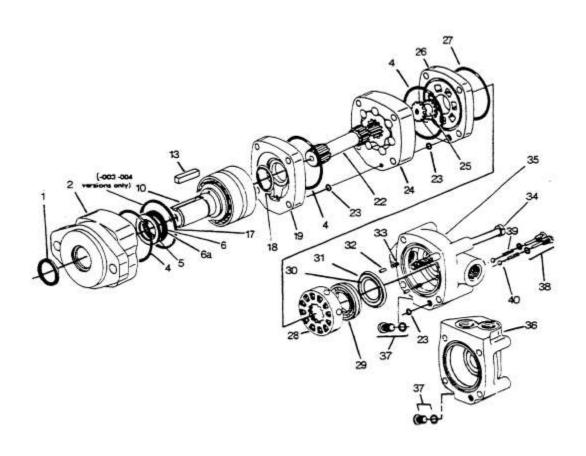
When oil leaks around motor drive shaft, replace motor or repair shaft seal.

Remove motor from Rockhound see Pg.24.

Remove 4 each mounting bolts. [34]

Remove seal. [1]

Install new seal, Re-assemble motor.



ROCKHOUND SPECIFICATIONS	72B
Total Weight Bucket Capacity Width	1450 lbs. (512 kg). 14.3 cu. ft³ (0.40m³) 78.6 inches (1997 mm)
Rockhound Bars	68.5", 38 Teeth
Rockhound Tooth Size Thickness Length	3/16" (4.8mm) 3" (76 mm)
No. of Rake Teeth	468
Chains Rake Drive Hydraulic Motor Displacement.	2060H Roller Chain #80H Roller Chain 24cu. in. (394 cm³) 11.9 cu. in. (195 cm³)
Relief Valve Setting	900 PSI (6205 kPa)
Bearings	Sealed, greasable
Case Drain Requirements	Connect to power unit Do not exceed 50 PSI 3/8 hose diameter Pull quick coupler to confirm engagement. High case pressure will result in motor failure.

RockHound 72B Landscape Rake REV 250707



