

LEON'S MFG. COMPANY INC.

WARRANTY MANUAL

The purpose of this manual is to identify the areas of interest and responsibility that mutually concern Leon's Mfg. Company Inc., the Leon Dealer, and the owner of a Leon Product. It is intended, through proper use, to assist the Dealer's Service and Warranty personnel in their interpretation of our various Policies and Procedures as they relate to all Leon Products.

The Leon Service and Warranty Department, while strictly enforcing the conditions outlined in this Manual, will endeavor at all times to assist Dealer Service facilities wherever possible. Your close adherence to the instructions in this Manual is your assurance of prompt and fair settlement of Warranty Claims and the full cooperation of the Service and Warranty Department at all times.

Leon's Mfg. Company Inc. endeavors to ensure that all Leon Products maintain our established high level of quality material and workmanship and we feel that this Manual will assist both the Dealer and the Company in our continuing efforts to provide our customers with the leaders in top quality products.

WARRANTY POLICY MANUAL INDEX

- I. GENERAL WARRANTY POLICY**
- II. DOZER BLADE UNITS**
- III. FRONT END LOADERS**
- IV. REAR BLADES**
- V. LAND SCRAPERS**
- VI. SILVER SPREADERS**
- VII. HYDRAULIC CYLINDERS**
- VIII. AUTHORIZED LEON ATTACHMENTS**
- IX. FLAT RATE CHART (HOURS) ALL PRODUCTS**

I. GENERAL WARRANTY POLICY

LEON'S MFG. COMPANY INC.'S LIABILITY WARRANTY

LEON'S MFG. COMPANY INC. (Hereinafter referred to as the "Company") warrant each new piece of equipment sold by the Company to be free from manufacturing defects when used in normal service for a period of twelve (12) months, commencing with delivery to the original user, if operated according to Manufacturer Instructions and by a competent and careful operator. Special Warranty Conditions may apply to specific pieces of equipment depending on the use. Refer to the specific section for details on each type of Leon Equipment. New Attachments are warranted for a period of six (6) months commencing from date of delivery to the original user. This Warranty shall not apply to any equipment or any part thereof which has been subject to misuse, negligence, alteration, or accident or which shall have been repaired outside of an authorized Leon's Dealer place of business.

The Company's obligation under this Warranty is expressly limited to replacement or repair at a designated Leon's Dealer, of such parts which in the opinion of the Company have been defective. The Company shall not be liable for consequential labour costs or transportation or repair of defective parts.

This Warranty to repair applies only to new and unused Leon Equipment which after shipment from the factory have not been altered, changed, or repaired, in any manner whatsoever and does not extend to trade accessories though sold or operated with the Company's Equipment. Trade accessories such as, but not limited to, engines, tires, batteries, hydraulic pumps and hydraulic motors are subject to the Warranty of their respective manufacturers.

The Company and/or its authorized Leon Dealers shall not be liable for consequential damages or contingent liabilities for the fitness of any Leon Equipment for any particular purpose.

This Warranty is expressly in lieu of any other express or implied warranty, condition or guarantee of this Leon Equipment or any part thereof, including any implied warranty or condition of merchantability or fitness and of any other obligations on the part of the Company or the selling Dealer.

No Representative of the Company has authority to change this Warranty in any manner whatsoever and no attempt to repair or promise to repair or improve the Leon Equipment covered by this Warranty by any Representative of the Company shall waive or change or extend this Warranty in any manner whatsoever.

NB: READ AND PRACTICE YOUR LEON EQUIPMENT OPERATING AND SERVICING INSTRUCTION. FAILURE TO DO THIS MAY VOID YOUR WARRANTY.

POLICY LIMITATIONS

The intent of the Warranty Policy is to cover only repairs made necessary due to defects in material or factory workmanship and not failures caused by wear, application, environment or negligence.

This Warranty does not cover:

- A) Conditions resulting from misuse, negligence, alterations, accident or lack of performance of required maintenance services.
- B) Oil changes, lubrications, filter changes and other similar service operations are considered normal maintenance.
- C) Pivot pins, tires, chains and other similar repairs which are considered normal wear items.
- D) Trade accessories such as engine, batteries, tires and other items not manufactured by Leon's are guaranteed by their respective manufacturers
- E) Attachments not manufactured by Leon's are warranted by their respective manufacturers.
- F) External cleaning of machines for repair purposes.
- G) Time required for the diagnosis of malfunctions.
- H) Travel time of mechanic, mileage, or hauling expense.
- I) Pre-delivery Inspection including adjustments.
- J) Loose bolts, nuts, or fitting due to over tightening or vibration after 30 hours of operation.
- K) Problems in the fuel system caused by water or dirt.
- L) Cooling System problems caused by air flow restriction.

WARRANTY POLICY GUIDE

This Warranty Policy Guide has been developed to assist the Dealer in building customer loyalty to the Dealer and the product lines when a warranty situation occurs. The purpose of this Guide is to explain the responsibilities of both the Dealer and Leon's in resolving the warranty with the retail customer. Both the Dealer and Leon's are engaged in a partnership to build customer satisfaction through the excellent service to the retail customer. The goal is to strengthen the reputation of both the Dealer and Leon's in the customer's view. The customer will tell others of their satisfaction, or dissatisfaction, that resulted from the warranty process.

The Warranty Policy Guide is designed to aid Dealers in promptly addressing customer's request in a prompt and consistent manner.

With a working knowledge of the Procedures outlined in this Manual, and the technical ability to determine the reason for repair or replacement, Warranty Claims can be handled efficiently, courteously and promptly.

1) The Purpose of Warranty

Warranty assures the purchaser that should a defect in material or workmanship occur during the Warranty Period, Leon's will assume specific repair responsibilities, as listed in the Warranty Statement. The Warranty Statement is to be provided to each purchaser of each piece of new equipment. Warranty begins on the date the product is delivered to the original purchaser of the product. Once the Warranty Period has begun, it cannot be stopped or interrupted.

2) Dealer Responsibilities

The following responsibilities are to be performed when the Dealer delivers a product to the purchaser or otherwise places it into Warranty Service:

(Failure to comply with any of these Responsibilities will result in denial of claim.)

1. Complete the Warranty Registration Form and forward to Leon's within thirty (30) days of the sale of the product. Warranty reimbursement is contingent upon product registration.
2. Review Warranty Statement, Operator's Manual and complete delivery report with purchaser to assure understanding of purchaser's responsibilities as related to warranty, service and the proper and safe operation of the product. Purchasers should be advised to have failed parts repaired or replaced immediately upon failure and that continued use will result in additional damage and excessive wear.
3. Contact Leon's prior to beginning repair or replacement of failed parts to make certain that the cost of repairs are consistent with the value of the product when sold. Warranty Requests for units in Dealer's inventory may be submitted to Leon's when defects are noted in products prior to the retail sale of that unit.
4. Provide warranty and service repairs as directed by Leon's Service Repair Bulletins or other instructions.
5. All warranty work must be completed within thirty (30) days of failure. Notify Leon's Warranty Department if repairs will require more than thirty (30) days after failure for an extension. No claim will be accepted for warranties that exceed this thirty (30) day period.
6. No Warranty will be allowed on units delivered to the retail customer prior to the full payment of that unit to Leon's by the Dealer.

1) Leon's Responsibilities

7. Reimbursement for parts used in Warranty Repair will be credited only when the parts are purchased from Leon's. Parts will be credited at Dealer's net cost, plus 10%. No Warranty will be allowed on parts that are past due.

8. Dealer should use parts from their parts inventory first. In the event that parts must be shipped from Leon's, freight will be paid by the Dealer and will be shipped by the most economical means to arrive in the shortest possible time. Air, Next Day Air, Priority and other special shipment methods requested by the Dealer will be at customer's cost.

9. Warranty Labour Reimbursement for labour expense to the Dealer is made by payment of up to \$65 per shop hour or as regulated by state statutes. Repair times will be reviewed by Leon's and may be adjusted to average repair time required by other Dealer to make similar repairs. Labour is not paid on the warranty associated with repair parts purchased by the retail customer that are used on a product that is not currently in Warranty Time Frame.

10. Reimbursements for repairs made by outside sources (not Dealer personnel) will be made for those services deemed necessary for the resolution of the Warranty by Leon's Warranty Department. Outside repair invoices must have prior approval from Leon's Service Department and must be attached to the Warranty Claim after approval.

1) Other Warranty Provisions

The following guidelines are to be followed when performing Warranty Repairs:

11. In all cases, the most economical repair should be performed unless otherwise directed. Credit will not be allowed for assemblies, or groups, if it is practical to make the repair with individual parts. In some cases, the assembly, or group price may be less than the total of the parts and labour required to complete the repair. In those cases, an assembly, or group, may be used.

12. Only those parts provided by Leon's are covered under Warranty. The use of parts from other sources will not be eligible for Warranty consideration.

13. All parts removed during Warranty Repair should be held for a period of sixty (60) days after the Warranty Claim has been submitted to Leon's or until:

- a. Their return is requested by Leon's, or
- b. Parts are inspected by the District Manager or an Authorized Leon's Representative, at which time they must be scrapped.
- c. Warranty Credit is received at which time they must be scrapped.

Parts awaiting disposition should be clearly tagged with the following information:

- d. Warranty Claim Number
- e. Part Number
- f. Defect

When the return of parts is requested, the following procedure is to be followed:

- g. Ensure that the parts are tagged properly and properly packaged.
- h. Ensure that the Warranty Claim (yellow copy) is enclosed as a packing slip.

Ship parts **PREPAID** to:

**Leon's Mfg. Company Inc.
WARRANTY DEPARTMENT
RETURN AUTHORIZATION NUMBER
135 York Road East, PO Box 5002
Yorkton, Saskatchewan S3N 3Z4
CANADA**

**This number will be supplied with the request to return parts and must be included in the shipping address.*

Failure to return parts within sixty (60) days of the request will render the particular claim void.

All parts returned for warranty consideration without prior authorization, or without the Warranty Parts Evaluation Department's Return Authorization Number clearly marked on the package, shall be returned, unopened, freight collect, to the sender.

Any parts whose failure results in personal injury or property damage should be so tagged and the Leon's Service Manager should be contacted immediately for instructions.

4. Leon's reserves the right to deny or reverse any and all Warranty Claims for parts, labour, or miscellaneous charges when errors are found or warranty provisions are abused or fraudulent claims are submitted.

5. Warranty Reimbursement is not possible:

- a. If parts returned are not cleaned and properly identified, or if they are damaged in returned shipment.
- b. When failure falls under the "limitations" as identified in the Warranty Statement. When Leon's has requested the return of certain parts, assemblies, or information and has not received material within thirty (30) days of date posted on return request.
- c. On claims due to damage or shortage that are obviously the responsibility of Dealer or the delivering carrier.
- d. On entire claim when Warranty Policy and Provisions are not followed.
- e. All Dealers will warranty their technician's work to the purchaser and will indemnify Leon's for such claims.

1) Service Bulletins

Service Bulletins will be issued when necessary to alert Dealers of special repairs. Each Bulletin will give detailed directions and procedures to complete the service.

2) Procedures For Completion Of Warranty Form

2. Dealer number, name and address - record number, name and address of dealership who has performed warranty repairs and requests reimbursement.
3. Customer name, address and telephone number - record name, address and telephone number of original purchaser of the warranted product.
4. Purchase Date - date when product was delivered to customer.
5. Serial Number - record the serial number of the machine on which repairs were performed.
6. Failure Date - record date when failure occurred.
7. Model - record model name or number.
8. Hours Used - record number of hours the product was used prior to failure. If hour meter is not available please estimate hours as close as possible.
9. Dealer Signature - Signature of Dealer, or Dealer's Representative, verifying repairs are complete.
10. Parts Required - record all service parts used to make necessary repairs. Include quantity, verifying repairs are complete.
11. Labour Hours - record time taken to perform repairs. (Repair time ONLY - Travel time is not allowed.)
12. Labour Rate - record your normal retail shop rate or the rate specified in Warranty Policy, whichever is less.
13. Total Labour Amount - multiply hours X rate to get total labour expense.
14. Total Parts - total list price of parts used.
15. Dealer Comments - please record a brief description of failure and probable cause.

1) Use of Photos

Pictures should be attached to the Dealer's Claim when their inclusion will help identify the condition of the part being repaired or replaced, and thus assisting in approval of the Claim. In many cases, the use of photos may eliminate the need to return parts for evaluation. Photos will not be returned unless specifically requested.

2) Delayed Warranty Repairs

Warranty repairs should be scheduled and performed as soon as possible after notification of Dealer and Leon's. There may be circumstances that require the use of the product for a short period of time by the retail customer or the availability of repairs necessary to complete the repairs will require the work to extend past the thirty (30) day period. In those cases, the Dealer must notify Leon's in writing of the extenuating circumstance and advise that the continued use of the product will not enlarge the Warranty Claim. These Claims will then be processed as if the product is still within the Warranty Period.

3) Denied Claims

Dealers will be notified of a denied claim in writing that will state the reason for the denial. The Dealer has the right to appeal this claim and must do so within thirty (30) days of notification of denial. If there has been no appeal within the thirty (30) day period the claim will be considered closed.

4) Engine Warranty And Registration

The engines installed in Leon Equipment are not warranted by Leon's. Please review the Engine Manufacturer's Warranty for the unit in question.

5) Hydraulic Warranty

Hydraulic components supplied by and used on Leon Equipment, but not of Leon Products' Manufacturing are limited to the Warranty, if any, extended by the original manufacturer. However, Leon's will provide such information as is required and available to facilitate the users claim to such manufacturer.

6) Spare Parts Warranty

Spare parts supplied by Leon's for use on Leon Equipment are warranted for a period of ninety (90) days or the remainder of the Leon Equipment Warranty; whichever is greater.

This Warranty applies only to new, unused parts installed by an Authorized Leon's Dealer. When applying for Spare Parts Warranty, attach proof of the purchase with the Warranty Claim.

II. DOZER BLADE UNITS

Although Leon Dozer Blade Units are designed to minimize strain or stress on the tractor, Leon's Mfg. Company Inc. cannot be responsible for any damage to the tractor occasioned through the mounting of the Dozer Blade.

1) **Blade**

All Leon Blades are warranted for one (1) year against defective workmanship and/or material. Leon Blades are not warranted against damage or failure due to misuse or abuse of the equipment such as impact damage or addition of non-Leon attachments. Cutting Edges and Skid Shoes are not warranted against wear.

1) **Push Assemblies**

All Leon Push Assemblies are warranted for one (1) year against defective workmanship and/or material. Leon Push Assemblies are not warranted against damage or failure due to misuse or abuse of the equipment, or the addition of non-Leon attachments. Hydraulic Cylinders, Hoses, Fittings, etc., are covered by applicable Manufacturer's Warranty. Hydraulic Cylinder Seal Kits are a "wear-out" product and are not warranted.

Bent Hydraulic Cylinder Shafts and loss of oil through hydraulic failure are both not covered under warranty, nor is damage to any related tractor hydraulic system components.

1) **Non Agricultural Use**

Leon Dozers are designed for Agricultural use only. Use of the Dozer Blade on any other type of work which results in damage to the Dozer Blade will not be warrantable.

1) **Mounting Kits**

While Leon's Mfg. Company Inc. takes all possible care to ensure that Mounting Kits will properly fit the tractor model(s) specified, we cannot be responsible for subsequent fit-up problems due to tractor manufacturers' changes or modification and/or installation of nonstandard attachments to the tractor. Under no circumstances will Leon's Mfg. Company Inc. accept any changes for rework or modification of a Mounting Kit unless prior approval has been obtained, in writing, from the Engineering or Service and Warranty Department of Leon's Mfg. Company Inc. Unauthorized modification to any part of the Dozer, including the Mounting Kit will void the warranty of the Dozer. Where incorrect Mounting Kits are ordered, Dealer is obliged to pay freight both ways if kit return is authorized.

I. FRONT END LOADERS

Although Leon Front End Loaders are designed to minimize strain or stress on the tractor, Leon's Mfg. Company Inc. cannot be responsible for any damage to the tractor occasioned through the mounting of the Loader.

1) Center Frame - Sub Frame - Lift arms

Leon Front End Loader Center Frames, Sub Frames, and Lift Arms are warranted for one (1) year against defective workmanship and/or material. These items are not warranted against damage or failure due to misuse or abuse of the equipment.

1) Buckets

Leon Buckets are warranted for one (1) year against defective workmanship and/or material. Buckets are not warranted against damage or failure due to misuse or abuse of the equipment, such as impact damage, fence post driving, addition of any non-Leon attachments, etc. Cutting Edges and Bucket Tines are "wear-out" products and therefore are not warranted. Hydraulic Cylinders, Hoses, Fittings, etc., are covered by applicable Manufacturer's Warranty. Hydraulic Cylinder Seal Kits are a "wear-out" product and are not covered by warranty. Bent Hydraulic Cylinder Shafts are also not warrantable.

1) Mounting Kits

While Leon's Mfg. Company Inc. takes all possible care to ensure that Mounting Kits will properly fit the tractor model(s) specified, we cannot be responsible for subsequent fit-up problems due to tractor manufacturers' changes or modification and/or installation of nonstandard attachments to the tractor. Under no circumstances will Leon's Mfg. Company Inc. accept any changes for rework or modification of a Mounting Kit unless prior approval has been obtained, in writing, from the Engineering or Service and Warranty Department of Leon's Mfg. Company Inc.

Unauthorized modification to any part of the Loader, including the Mounting Kit, will void the Warranty of the Loader. Where incorrect Mounting Kits are ordered, Dealer is obliged to pay freight both ways if kit return is authorized.

I. REAR BLADES

Although Leon Rear Blades are designed to minimize strain or stress on the tractor, Leon's Mfg. Company Inc. cannot be responsible for any damage to the tractor occasioned through the mounting of the Rear Blade.

1) Blade

All Leon Blades are warranted for one (1) year against defective workmanship and/or material. Leon Blades are not warranted against damage or failure due to misuse or abuse of the equipment such as impact damage or addition of non-Leon attachments. Cutting Edges and Skid Shoes are not warranted.

1) Pull Assemblies

All Leon Pull Assemblies are warranted for one (1) year against defective workmanship and/or material. Leon Pull Assemblies are not warranted against damage or failure due to misuse or abuse of the equipment, or the addition of non-Leon attachments. Hydraulic Cylinders, Hoses, Fittings, etc., are covered by applicable Manufacturer's Warranty. Hydraulic Cylinder Seal Kits are a "wear-out" product and are not warranted. Bent Hydraulic Cylinder Shafts and loss of oil through hydraulic failure are both not covered under warranty, nor is damage to any related tractor hydraulic system components.

I. LAND SCRAPERS

All Leon Land Scrapers are warranted for one (1) year against defective workmanship and/or material. Non-manufactured items such as tires, wheels, bearings, and hydraulic components are not warranted by Leon's Mfg. Company Inc. but are covered by the appropriate Manufacturer's Warranty. Cutting Edges are a "wear-out" product and are not warranted. Hydraulic Cylinders, Hoses, Fittings, etc., are covered by applicable Manufacturer's Warranty. Bent Hydraulic Cylinder Shafts are also not warrantable.

Leon Land Scrapers are designed to be pulled behind rubber-tired tractors of the appropriate horsepower:

Models 600 & 650	- 2WD Tractor - Max. Drawbar H.P.	- 150
	- 4WD Tractor - Max. Drawbar H.P.	- 125
Models 900 & 1000	- 4WD Tractor - Max. Drawbar H.P.	- 225
Models 1450, 1700 & 2900	- 4WD Tractor - Max. Drawbar H.P.	- 425

All Warranty on Leon Scrapers will be void if:

1. Tractors exceeding above horsepower ratings are used.
2. Scrapers are pushed without factory supplied push bumper.
3. Used with track-type power units.
4. Used on Industrial or Commercial basis.

Damage caused by misuse or abuse of the Land Scraper shall not be warrantable.

I. LEON SILVER SPREADER

Leon's Mfg. Company Inc. warrants all products manufactured by Leon's Mfg. Company Inc. for a period of one (1) year from the date of purchase for private use, or a period of ninety (90) days for commercial use. Leon's Mfg. Company Inc. warrants tires for a period of sixty (60) days for private use or a period of thirty (30) days for commercial use. Plastic lumber carries a ten (10) year Material Replacement Warranty against rot.

This Warranty provides that the equipment shall be free of defective materials and workmanship, or we will replace or repair at our factory any part that our inspection shows to be defective.

If any product or portion thereof is modified, changed, or tampered with in any way, this Warranty shall be deemed null and void.

All Hydraulic Cylinders, Valves, Hoses, Tires, Spindles and other purchased products, except as specifically included in the warranty above, are not manufactured by Leon's and are, therefore, covered by the warranties of the manufacturer of these products. Hydraulic Cylinder Seal Kits are a "wear-out" product and are not warranted. Bent Hydraulic Cylinder Shafts and loss of oil through hydraulic failure are both not covered under warranty, nor is damage to any related tractor hydraulic system components.

All parts shipped to the factory shall be shipped prepaid and will be returned F.O.B. Factory. Leon's Mfg. Company Inc. does not assume responsibility for shipping, labour, or travel expenses.

Although Leon's products are designed to minimize tractor strain, Leon's Mfg. Company Inc. will assume no responsibility for damage to tractors or other equipment.

Leon's Mfg. Company Inc. reserves the right to make improvements and reserves the right to change the design, materials and specifications without notice or obligation.

PRE-DELIVERY INSPECTION

The Spreader may have been partially disassembled for shipping. If assembly is required, contact Leon's Mfg. Company Inc. for assembly instructions.

1. Install the tandem axle assembly into the main frame and secure with bolts provided.
2. Fill cavity between tandem axle bushings with premium quality multipurpose grease.
3. Ensure that all safety decals are in place.
4. Ensure that all bolts and fasteners are in place and properly tightened.
5. Check wheel bolts for proper tightness. Check tire pressure.
6. Check roller chains to ensure proper installation and tension.

7. Determine whether the tractor has open center or closed center hydraulics. Check Lines and fittings for any loose connections. Add oil to the hydraulic system. Hook up the hydraulic lines and cycle the end gate and push gate several times in order to purge air from the system. Add oil to the tractor until the oil in the tractor is within the normal operating range with all cylinders retracted.
8. Ensure that the gearbox is filled to appropriate level with multipurpose gear oil SAE 80 or 90.
9. Ensure that the PTO is properly attached.
10. If possible, hook up the Spreader and give it a test run. Ensure that the area around the Spreader is clear. Start the machine and observe from a distance, ensuring that all parts are working correctly. Stay clear of rear of machine while it is in operation, and make adjustments only after shutting down tractor and ensuring that all parts have ceased moving.
11. Complete Pre-Delivery Inspection Sheet and return to Leon's Mfg. Company Inc.

I. HYDRAULIC CYLINDERS

Hydraulic Cylinders used on Leon products are warranted by the manufacturer against defects in workmanship and/or materials, and guaranteed to perform to established specifications when properly installed for one (1) year from the date of purchase (This Warranty is applicable to the initial owner only). This Warranty does not obligate Leon's Mfg. Company Inc., or the cylinder manufacturer, to bear any cost of loss of time, loss of profits, consequential damages, either direct or indirect, or any other incurred liability through system malfunction of items installed on Leon Equipment.

All Hydraulic Cylinders are pressure tested prior to shipping. Cylinders are packaged to ensure no damage such as scratching, marking, nicking, etc., results to the chrome plated shafts. Extreme care must be taken when assembling cylinders on machines to ensure no damage is incurred to the cylinders, as such damage, caused by accident, neglect or miss-handling, will not be warrantable. Damage to shafts - scratching, scarring, dents, bending, etc., - is usually the result of abuse or miss-handling or accident, and as such there would be no Warranty given for damage or failure of the cylinder to function when such damage is present on the shaft. Leakage caused by worn O-rings, seals, cups, etc., is considered to be normal wear, and as such, O-rings, seals, cups, etc., are not replaceable under Warranty when wear is evident. Hydraulic Cylinder Seal Kits are "wearable products" and are not covered by Warranty.

All cylinders returned for repair will be rebuilt into "new" condition, including repainting, for a nominal charge, in addition to the cost of repairs. Once repaired, New Warranty will be given on the rebuilt cylinder. The cylinder manufacturer is not obliged for repair or replacement of any cylinder, which has been altered or repaired by other than an authorized representative of the manufacturer.

I. AUTHORIZED LEON ATTACHMENTS

All Authorized Leon Attachments are warranted for six (6) months against defective workmanship and/or material. Damage due to misuse or abuse for purposes other than that which the attachment was designed will not be warrantable, and may void the Warranty on the Front End Loader or Dozer Blade Unit.

I. FLAT RATE CHART (HOURS) ALL PRODUCTS

SILVER SPREADER	MODEL SS425	MODEL SS375	MODEL SS585 / SS755
R & R flow control valve	0.3	0.3	0.3
R & R front drive steady bearing	0.3	0.3	0.3
R & R # 2 drive line steady bearing	0.5	0.5	0.5
R & R # 3 drive line steady bearing	1.6	1.6	1.6
R & R # 4 drive line steady bearing	1.6	1.6	1.6
R & R # 5 drive line steady bearing	1.6	1.6	1.6
R & R # 6 drive line steady bearing	1.6	1.6	1.6
R & R drive line coupling	0.3	0.3	0.3
R & R gear box bottom guard	0.2	0.2	0.2
R & R drive shaft drive gear	0.4	0.4	0.4
R & R drive shaft gear steady bearing	0.3	0.3	0.3
R & R lower beater drive chain	0.3	0.3	0.3
R & R gear box	0.4	0.4	0.4
R & R lower beater drive sprocket	0.4	0.4	0.4
R & R lower beater steady bearings	0.5	0.5	0.5
R & R lower beater	0.3	0.3	0.5
R & R push gate	0.6	0.6	1.0
R & R push gate slide rail assembly	0.4	0.4	0.4
R & R push gate seals	0.5	0.5	0.5
R & R I beam rail	0.8	0.8	1.0
R & R 4x4 top board	0.4	0.4	0.4
R & R side board	0.4	0.4	0.6
R & R bottom board	0.6	0.6	0.8
R & R tire rim assembly	0.3	0.3	0.3
R & R hub bearings and seals	1.0	1.0	1.0
R & R axle assembly	0.8	0.8	0.8
R & R hydraulic cylinder cover	0.4	0.4	0.4
R & R hydraulic hose tray	1.0	1.0	0.0
R & R hydraulic cylinder assembly	0.8	0.8	0.8
R & R hydraulic cylinder hoses	0.3	0.3	0.3
R & R 1 of hydraulic cylinder assembly	1.2	1.2	1.2
R & R rear gate	0.6	0.6	1.0
R & R rear gate seals	0.5	0.5	0.5
R & R steel hydraulic line to rear gate	0.4	0.4	0.4
R & R hydraulic cylinder for the rear gate	0.5	0.5	0.5
R & R upper beater chain	0.3	0.3	0.3
R & R upper beater bearing	0.4	0.4	0.4
R & R upper beater sprocket	0.4	0.4	0.4
R & R top idler	0.2	0.2	0.2
R & R bottom idler	0.2	0.2	0.2
R & R beater paddle	0.2	0.2	0.3
R & R slurry pan	0.4	0.4	0.4
R & R slurry pan actuating cable	0.3	0.3	0.3

SCRAPER

MODEL 600/650

MODEL 900/1000

MODEL 1450/1700

Tire Hub Assembly

R & R front tire/rim assembly	0.4	0.4	0.4
R & R rear tire/rim assembly	0.4	0.4	0.4
R & R front hub assembly	1.0	1.0	1.0
R & R rear hub assembly	1.0	1.0	1.0
R & R rear axle assembly	1.3	1.3	1.3

Front Hitch Assembly

R & R front hitch pole	3.7	3.7	4.2
R & R front frame main pivot pins	0.3	0.3	0.3
R & R front frame to front main frame	3.3	3.3	3.8
R & R hitch coupling blocks	0.5	0.5	N/A
R & R hitch coupler ball	0.5	0.5	0.8
R & R hitch bottom coupling ball flange	N/A	N/A	0.8
R & R coupling ball flange shim	N/A	N/A	0.5

Main Frame Assembly

R & R cutting edge center	0.4	0.4	0.5
R & R cutting edge outside	0.3	0.3	0.3
R & R cylinder side covers	0.2	0.2	0.3
R & R push bumper kit (optional)	N/A	N/A	0.4

Front Gate Assembly

R & R front gate	1.1	1.1	1.4
R & R front gate pivot pin	0.2	0.2	0.2

Rear Gate Assembly

R & R rear gate	2.6	2.6	3.0
R & R rear gate roller	0.2	0.2	0.2
R & R rear gate guide roller	0.2	0.2	0.2
R & R rear gate roller pin	0.2	0.2	0.2
R & R rear gate guide roller	0.2	0.2	0.2
R & R rear gate cylinder guard	0.2	0.2	0.3

Hydraulic Cylinder

R & R front gate cylinder	0.4	0.4	0.5
R & R lift cylinder	0.4	0.4	0.5
R & R rear push gate cylinder	0.5	0.5	0.6
R & R pilot operated sequence valve	0.4	0.4	0.4

Hydraulic Lines

R & R front gate circuit steel line	0.4	0.4	0.4
R & R front gate rubber hose	0.3	0.3	0.3
R & R lift circuit steel line	0.4	0.4	0.4
R & R lift circuit rubber hose	0.3	0.3	0.3
R & R rear push off circuit steel line	0.4	0.4	0.4
R & R rear push off cylinder rubber hose	0.3	0.3	0.3
R & R tractor to scraper rubber hose	0.4	0.4	0.4

LOADERS

	MODEL 405,505,510, 4005,5005	MODEL 605,655,705, 6005,7005	MODEL 805, 905, 8005.9005
R & R lift cylinder	0.4	0.5	0.5
R &R lift cylinder pin	0.2	0.2	0.2
R & R lift cylinder hydraulic line	0.4	0.4	0.4
R & R lift cylinder rubber hydraulic hose	0.3	0.3	0.3
R & R tilt cylinder	0.4	0.4	0.5
R & R tilt cylinder pin	0.2	0.2	0.2
R & R tilt cylinder rubber hydraulic hose	0.3	0.3	0.3
R & R bucket quick attach	0.3	0.3	0.3
R & R park stand	0.2	0.2	0.2

REAR BLADES

	MODEL 30/50/70/90	MODEL 130/200	MODEL 280/350/420
R & R off set hydraulic cylinder	N/A	0.5	0.5
R & R off set hydraulic cylinder mount pin	N/A	0.2	0.2
R & R angle hydraulic cylinder	N/A	0.5	0.5
R & R angle hydraulic cylinder mount pin	N/A	0.2	0.2
R & R tilt hydraulic cylinder	N/A	0.4	0.4
R & R tilt hydraulic cylinder mount pin	N/A	0.2	0.2
R & R main frame weldment	0.8	1.3	1.3
R & R main frame weldment pivot pin	0.2	0.2	0.2
R & R A-frame weldment	0.6	0.8	1.0
R & R king pin weldment	0.5	0.7	0.7
R & R blade tilt pin	0.2	0.2	0.2
R & R mold board	0.6	0.7	0.7
R & R cutting edge	0.4	0.5	0.6
R & R skid shoe	0.2	0.2	0.2
R & R gauge wheel hydraulic cylinder	N/A	N/A	0.5
R & R mechanical link	0.3	0.3	N/A
R & R wheel mount bracket	N/A	0.5	0.7
R & R spindle mount	N/A	0.8	1.0
R & R axle assembly	N/A	0.6	1.2
R & R hub assembly	N/A	0.6	0.6
R & R wheel assembly	N/A	0.3	0.3

DOZERS

	ALL MODELS
R & R hydraulic lift cylinder	0.5
R & R hydraulic lift cylinder rubber hose	0.3
R & R hydraulic tilt cylinder	0.4
R & R hydraulic tilt cylinder rubber hose	0.3
R & R hydraulic angle cylinder	0.5
R & R hydraulic angle cylinder rubber hose	0.3
R & R solid link	0.3
R & R sub frame	2.0
R & R cutting edge	0.4