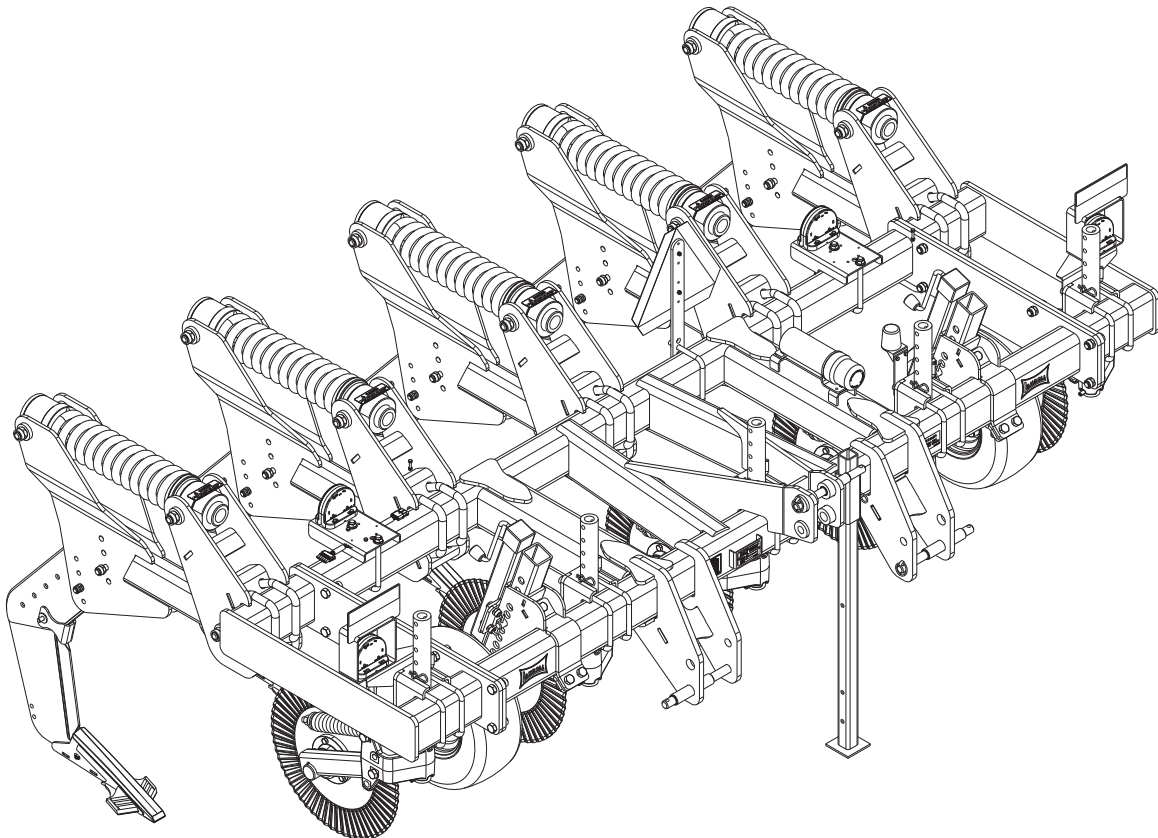




2511N In-Line Ripper Models: 3, 4, 5 Shanks Operator's Manual

**FOR MODELS BEFORE 04/15/2024
SEE F-1011 RIGID & FOLDING IN-ROW RIPPER**



LANDOLL COMPANY, LLC

1900 North Street

Marysville, Kansas 66508

(785) 562-5381

800-428-5655 ~ **WWW.LANDOLL.COM**

Instructions for Ordering Parts

**** Repair parts must be ordered through an Authorized Dealer ****

DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

Phone: 800-423-4320 or 785-562-5381

Fax: 888-527-3909

Order online: dealer.landoll.com

DATA PLATE

The Data Plate, which lists the model number and serial number, is located on the front of the frame.

SERIAL NUMBER

The following information will help decode the serial number.

25C2400100 = xxmysssss

xx	= model series (i.e. "25" for all In-Line Rippers)
m	= month of manufacture (ex. "C" means March. The letter I is not used.)
yy	= year manufactured (ex. "24" means 2024)
sssss	= sequential number used to track warranty and service information.

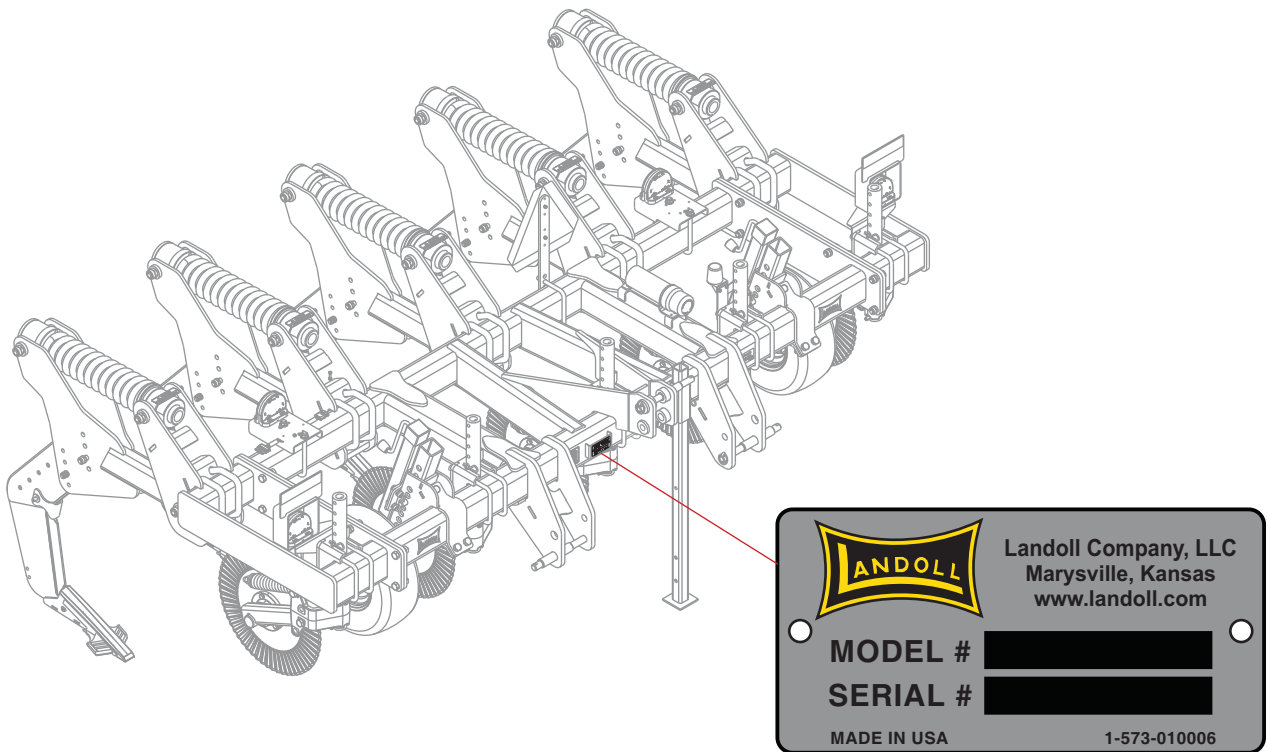


Figure: Data Plate and Location

Manuals for 2511N In-Line Ripper - 3, 4, 5 Shanks

Manual Number	Manual Type
F-1169	Operator's Manual
F-1168	Parts Manual



DANGER

DO NOT operate or perform any maintenance tasks on this equipment until you have completed the following:

1. Receive proper training to operate this equipment safely.
2. Read and understand the operator's manual.
3. Be thoroughly trained on inspection and repair procedures.

Failure to comply with this warning may result in serious injury or possibly death.

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Introduction and Safety Information

The Landoll Model 2511N In-Line Ripper is a quality product designed to give years of trouble free performance. By following each section of this manual, your system will perform as designed for you and your operation.

CHAPTER 1	Gives basic instructions on the use of this manual and understanding the safety statements.
CHAPTER 2	Gives product specifications for the equipment. These specifications supply lengths and measures for your equipment. A Standard Bolt Torque Table is provided to give guidelines for bolt torques to be used when servicing this product.
CHAPTER 3	Contains assembly instructions for your 2511N In-Line Ripper. When these procedures are correctly followed, your equipment should provide you years of trouble-free operation and service.
CHAPTER 4	Instructs how to operate your equipment before using it, and describes adjustments needed. Gives practical advice for the care and maintenance of your Landoll equipment. Drawings in this section locate adjustment points on the equipment.

IF YOU HAVE ANY QUESTIONS CONTACT:

**LANDOLL COMPANY, LLC
1900 NORTH STREET
MARYSVILLE, KANSAS 66508**

PHONE (785) 562-5381 or (800) 428-5655

OR

FAX (888) 527-3909

CHAPTER 5	Is a troubleshooting guide to aid in diagnosing and solving problems with the In-Line Ripper.
PARTS MANUAL	Is a separate manual showing the various assemblies, subassemblies, and systems. Refer to that manual when ordering Landoll replacement parts. Order parts from your Landoll dealer.
WARRANTY	The Warranty Registration form is included with the product documents. Fill it out and mail it within 10 days of purchase. NOTE: IMPROPER ASSEMBLY, MODIFICATION, OR MAINTENANCE OF YOUR LANDOLL MACHINE CAN VOID YOUR WARRANTY.
COMMENTS	Address comments or questions regarding this publication to:

**LANDOLL COMPANY, LLC
1900 NORTH STREET
MARYSVILLE, KANSAS 66508
ATTENTION: PUBLICATIONS - DEPT. 55**

Introduction

The implement described in this manual has been designed with care and built by skilled workers using quality materials and processes. Proper assembly and maintenance will provide you with satisfactory use for seasons to come.



DANGER

Read this entire manual before attempting to assemble, adjust or operate this implement. Failure to comply with this warning can result in personal injury or death, damage to the implement or its components and inferior operation.

Using this Manual

This manual will familiarize you with safety, assembly, operation, adjustment, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.

- The information in this manual is current at time of printing. Some parts may have changed to assure top performance.
- Location reference: Right and Left designations in this manual are determined by facing the direction the implement will travel during field operation, unless otherwise stated.

Owner Assistance

If customer service or repairs are needed, contact your Landoll dealer. Implement parts should only be replaced with Landoll parts. Have the Serial Number and complete Model Number available when ordering parts from your Landoll dealer. If items covered in this manual are not understood, contact your local Landoll dealer.

Warranty Registration

To be eligible for Warranty, registration must be on file at Landoll Company, LLC. It is the responsibility of the dealer to register the machine within 10 days of purchase or lease on the Dealer Portal. Check with the dealer to verify the machine has been registered.

NOTE: IMPROPER ASSEMBLY, MODIFICATION, OR MAINTENANCE OF YOUR LANDOLL MACHINE CAN VOID YOUR WARRANTY.

Enter your product information below for quick reference. Refer to the Data Plate as shown. *See Figure 1-1.*

MODEL NUMBER _____

SERIAL NUMBER _____

DATE OF PURCHASE _____

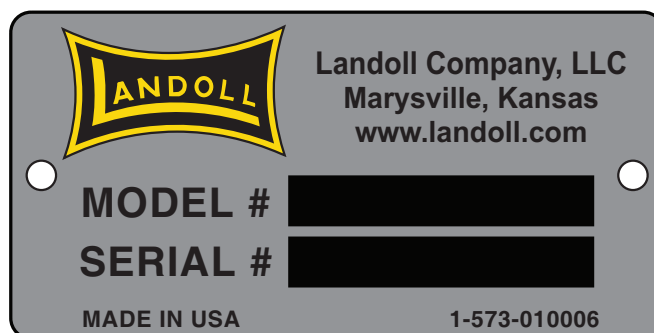


Figure 1-1: Data Plate

Safety

NOTE

Investigation has shown that nearly 1/3 of all farm accidents are caused by careless use of machinery. Insist that all people working with you or for you abide by all safety instructions.

Understanding Safety Statements

You will find various types of safety information on the following pages and on the machine decals (signs) attached to the implement. This section explains their meaning.

NOTICE

Special notice - read and thoroughly understand.



CAUTION

Caution means serious equipment or other property damage can occur if instructions on this label are not properly followed.



WARNING

Warning means serious injury or death can occur if safety measures or instructions on this label are not properly followed.



DANGER

Danger means a life-threatening situation exists. Death can occur if safety measures or instructions on this label are not properly followed.

NOTE

You should read and understand the information contained in this manual and on the implement decals before you attempt to operate or maintain this equipment.

- Examine safety decals and be sure you have the correct safety decals for the implement.
- Keep these signs clean so they can be observed readily. It is important to keep these decals cleaned more frequently than the implement. Wash with soap and water or a cleaning solution as required.
- Replace decals that become damaged or lost. Also, be sure that any new implement components installed during repair include decals which are assigned to them by the manufacturer.

- When applying decals to the implement, be sure to clean the surface to remove any dirt or residue. Where possible, sign placement should protect the sign from abrasion, damage, or obstruction from mud, dirt, oil etc.



DANGER

- Do not allow anyone to ride on the tractor or implement. Riders could be struck by foreign objects or thrown from the implement.
- Never allow children to operate equipment.
- Keep bystanders away from implement during operation.

Transporting Safety

IMPORTANT

It is the responsibility of the owner/operator to comply with all state and local laws.

- When transporting the implement on a road or highway, use adequate warning symbols, reflectors, lights and slow moving vehicle sign as required. Slow moving tractors and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.
- Do not tow an implement that, when fully loaded, weighs more than 1.5 times the weight of the towing vehicle.
- Carry reflectors or flags to mark the tractor and implement in case of breakdown on the road.
- Do not transport at speeds over 20 MPH under good conditions. Never travel at a speed which does not allow adequate control of steering and stopping. Reduce speed if towed load is not equipped with brakes.
- Avoid sudden stops or turns because the weight of the implement may cause the operator to lose control of the tractor. Use a tractor heavier than the implement.
- Use caution when towing behind articulated steering tractors; fast or sharp turns may cause the implement to shift sideways.
- Keep clear of overhead power lines and other obstructions when transporting. Know the transport height and width of your implement.

Attaching, Detaching, and Storage

- Do not stand between the tractor and implement when attaching or detaching implement unless both are not moving.
- Block implement so it will not roll when unhitched from the tractor.
- Store in an area where children normally do not play.

Maintenance Safety

- Understand the procedure before doing the work. Use proper tools and equipment.
- Make sure all moving parts have stopped.
- Do not make adjustments or lubricate implement while it is in motion.
- Block the implement so it will not roll when working on or under it to prevent injury.

Protective Equipment

- Wear protective clothing and equipment appropriate for the job. Avoid loose fitting clothing.
- Because prolonged exposure to loud noise can cause hearing impairment or hearing loss, wear suitable hearing protection, such as earmuffs or earplugs.

Chemical Safety

Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil and property.

- Read chemical manufacture's instructions and store or dispose of unused chemicals as specified. Handle chemicals with care and avoid inhaling smoke from any type of chemical fire.
- Store or dispose of unused chemicals as specified by the chemical manufacturer.

Prepare for Emergencies

- Keep a First Aid Kit and Fire Extinguisher handy.
- Keep emergency numbers for doctor, ambulance, hospital and fire department near the phone.

Tire Safety

Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment.

- When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side, not in front of or over the tire assembly. Use a safety cage if available.
- When removing and installing wheels use wheel-handling equipment adequate for the weight involved.

Standard Specifications

Model Specifications

2511N In-Line Ripper - Auto-Reset Models					
Model Number	Number of Shanks	Shank Spacing	Shank Extensions	Transport Width	Estimated Weight
2511N-3-30	3	30"	NONE	9' 3"	3,230 LBS.
2511N-4-30	4	30"	NONE	9' 3"	3,825 LBS.
2511N-5-30	5	30"	12" BOLT-ON	12' 0"	4,715 LBS.

2511N In-Line Ripper - Rigid Shear Bolt Models					
Model Number	Number of Shanks	Shank Spacing	Shank Extensions	Transport Width	Estimated Weight
2511N-3-30	3	30"	NONE	9' 3"	2,410 LBS.
2511N-4-30	4	30"	NONE	9' 3"	2,735 LBS.
2511N-5-30	5	30"	12" BOLT-ON	12' 0"	3,345 LBS.

Tire Inflation			
Tire Size	Tire Manufacturer	Ply/Load Rating	Inflation Pressure (Psi) (Max.)
20.5 X 8.0-10	Firestone	Load Range D/ 1,320 LBS.	70 psi.

Recommended Torque Specification For Lug Bolts and Nuts	
Bolt Size	Torque (Ft-Lbs.)
9/16-18 (Heavy Duty Disc)	80 - 90 Ft-Lbs.
5/8-18 (Heavy Duty Disc)	85 - 100 Ft-Lbs.

General Torque Specifications

LANDOLL

FASTENER TORQUE SPECIFICATIONS

(Rev. 23/04)

This chart provides general torque specifications for Standard Nuts and Caps Screws (as received condition) that are not called out on processes or drawings.

This **DOES NOT** apply if special lubrication such as graphite moly-disulfide or other extreme pressure lubricants are used.

Add 33% to the listed torque specification if the fastener is dry (solvent cleaned).

Cap screw grades are indicated by markings on the head, these vary among manufacturers.

Thick Nuts must be used on grade 8 cap screws.

SAE TORQUE SPECIFICATIONS (FOOT-POUNDS)

[] Indicates specifications for Prevailing Torque Nuts.

UNC Size			
Grade 2	Grade 5	Grade 8	
1/4 - 20	4 [5]	6 [7]	9 [11]
5/16 - 18	8 [10]	13 [16]	18 [22]
3/8 - 16	15 [19]	23 [29]	35 [43]
7/16 - 14	24 [30]	35 [43]	55 [62]
1/2 - 13	35 [43]	55 [62]	80 [100]
9/16 - 12	55 [62]	80 [100]	110 [137]
5/8 - 11	75 [94]	110 [137]	170 [212]
3/4 - 10	130 [162]	200 [250]	280 [350]
7/8 - 9	125 [156]	320 [400]	460 [575]
1 - 8	190 [237]	408 [506]	680 [850]
1-1/8 - 7	270 [337]	600 [750]	960 [1200]
1-1/4 - 7	380 [475]	840 [1050]	1426 [1782]
1-3/8 - 6	490 [612]	1100 [1375]	1780 [2225]
1-1/2 - 6	650 [812]	1460 [1825]	2360 [2950]

See back side for SAE UNF and Metric torques.

Form No. F-257-0322

SAE TORQUE SPECIFICATIONS (FOOT POUNDS)

[] Indicates specifications for Prevailing Torque Nuts.

UNF Size			
Grade 2	Grade 5	Grade 8	
1/4 - 28	5 [6]	7 [9]	10 [12]
5/16 - 24	9 [11]	14 [17]	20 [25]
3/8 - 24	17 [21]	25 [31]	35 [44]
7/16 - 20	27 [34]	40 [50]	60 [75]
1/2 - 20	40 [50]	65 [81]	90 [122]
9/16 - 18	60 [75]	90 [112]	130 [162]
5/8 - 18	85 [106]	130 [162]	180 [225]
3/4 - 16	150 [188]	220 [275]	320 [400]
7/8 - 14	140 [175]	360 [450]	500 [625]
1 - 14	210 [263]	540 [675]	760 [950]
1-1/8 - 12	300 [375]	660 [825]	1080 [1350]
1-1/4 - 12	420 [525]	920 [1150]	1500 [1875]
1-3/8 - 12	560 [700]	1260 [1575]	2010 [2512]
1-1/2 - 12	730 [912]	1640 [2050]	2660 [3325]

METRIC TORQUE SPECIFICATIONS

This chart provides torque specification for phosphate coated, Rockwell "C" 38-45 Metric Coarse Thread Class 10.9 Fasteners, Class 10.0 Nuts and Harden Flat Washers.

[] Indicates specifications for Prevailing Torque Nuts.

MM Size	Newton - Meters	Foot-Pounds
6	10 [14]	7 [10]
7	16 [22]	12 [16]
8	23 [32]	17 [24]
10	46 [60]	34 [47]
12	80 [101]	60 [75]
14	125 [155]	90 [115]
16	200 [240]	150 [180]
18	275 [330]	205 [245]
20	385 [450]	290 [335]
24	670 [775]	500 [625]
27	980 [1105]	730 [825]
30	1330 [1470]	990 [1090]
33	1790 [1950]	1730 [1870]
36	2325 [2515]	1730 [1870]
39	3010 [3210]	2240 [2380]

See front side for SAE UNC and notes.

Figure 2-1: General Torque Specifications

Hydraulic Fitting Torque Specifications

LANDOLL HYDRAULIC FITTING TORQUE SPECIFICATIONS (REV. 23/04) AEROQUIP BRAND FITTINGS 37° JIC; ORS & ORB This chart provides torque specifications for Plated Carbon Steel and Stainless Steel Fittings (as received condition) that are not called out on processes or drawings. This DOES NOT apply if special lubrication such as graphite moly-disulfide or other extreme pressure lubricants are used. Minus 65% from the listed torque specification for Brass Fittings. TORQUE SPECIFICATIONS (FOOT-POUNDS) [] Indicates specifications for Prevailing Torque Nuts. <table><tr><th>DASH Size</th><th>37 Degree JIC</th><th>O-Ring (ORS)</th><th>O-Ring Boss (ORB)</th></tr><tr><td>-4</td><td>11-12</td><td>10-12</td><td>14-16</td></tr><tr><td>-5</td><td>15-16</td><td>-----</td><td>18-20</td></tr><tr><td>-6</td><td>18-20</td><td>18-20</td><td>24-26</td></tr><tr><td>-8</td><td>38-42</td><td>32-35</td><td>50-60</td></tr><tr><td>-10</td><td>57-62</td><td>46-50</td><td>72-80</td></tr><tr><td>-12</td><td>79-87</td><td>65-70</td><td>125-135</td></tr><tr><td>-14</td><td>-----</td><td>-----</td><td>160-180</td></tr><tr><td>-16</td><td>108-113</td><td>92-100</td><td>200-220</td></tr><tr><td>-20</td><td>127-133</td><td>125-140</td><td>240-280</td></tr><tr><td>-24</td><td>158-167</td><td>150-165</td><td>270-360</td></tr><tr><td>-32</td><td>245-258</td><td>-----</td><td>-----</td></tr></table>	DASH Size	37 Degree JIC	O-Ring (ORS)	O-Ring Boss (ORB)	-4	11-12	10-12	14-16	-5	15-16	-----	18-20	-6	18-20	18-20	24-26	-8	38-42	32-35	50-60	-10	57-62	46-50	72-80	-12	79-87	65-70	125-135	-14	-----	-----	160-180	-16	108-113	92-100	200-220	-20	127-133	125-140	240-280	-24	158-167	150-165	270-360	-32	245-258	-----	-----	LANDOLL HYDRAULIC FITTING TORQUE SPECIFICATIONS (REV. 23/04) GATES BRAND FITTINGS 37° JIC; ORS & ORB This chart provides torque specifications for Plated Carbon Steel and Stainless Steel Fittings (as received condition) that are not called out on processes or drawings. 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-20	160-180	248-272	213-237																																																																																																																																															
-24	185-215	303-327	238-262																																																																																																																																															
-32	250-290	-----	310-340																																																																																																																																															
FORM NO. F-263-2304 (1 of 3)	FORM NO. F-263-2304 (2 of 3)	FORM NO. F-263-2304 (3 of 3)																																																																																																																																																

Figure 2-2: Hydraulic Fitting Torque Specifications

Shank Placement Dimensions

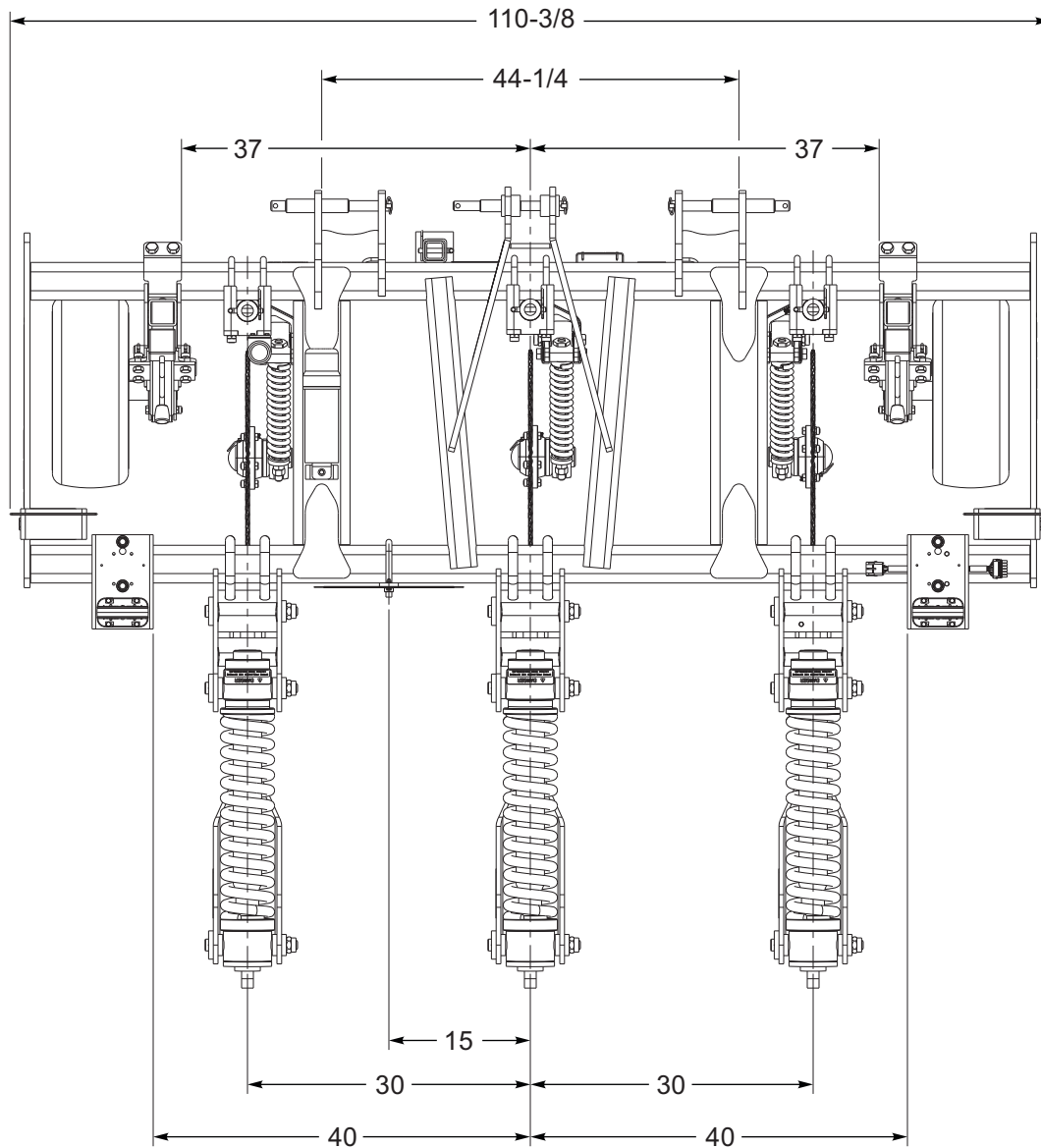


Figure 2-1: 2511N-3-30 Shank and Lighting Placement

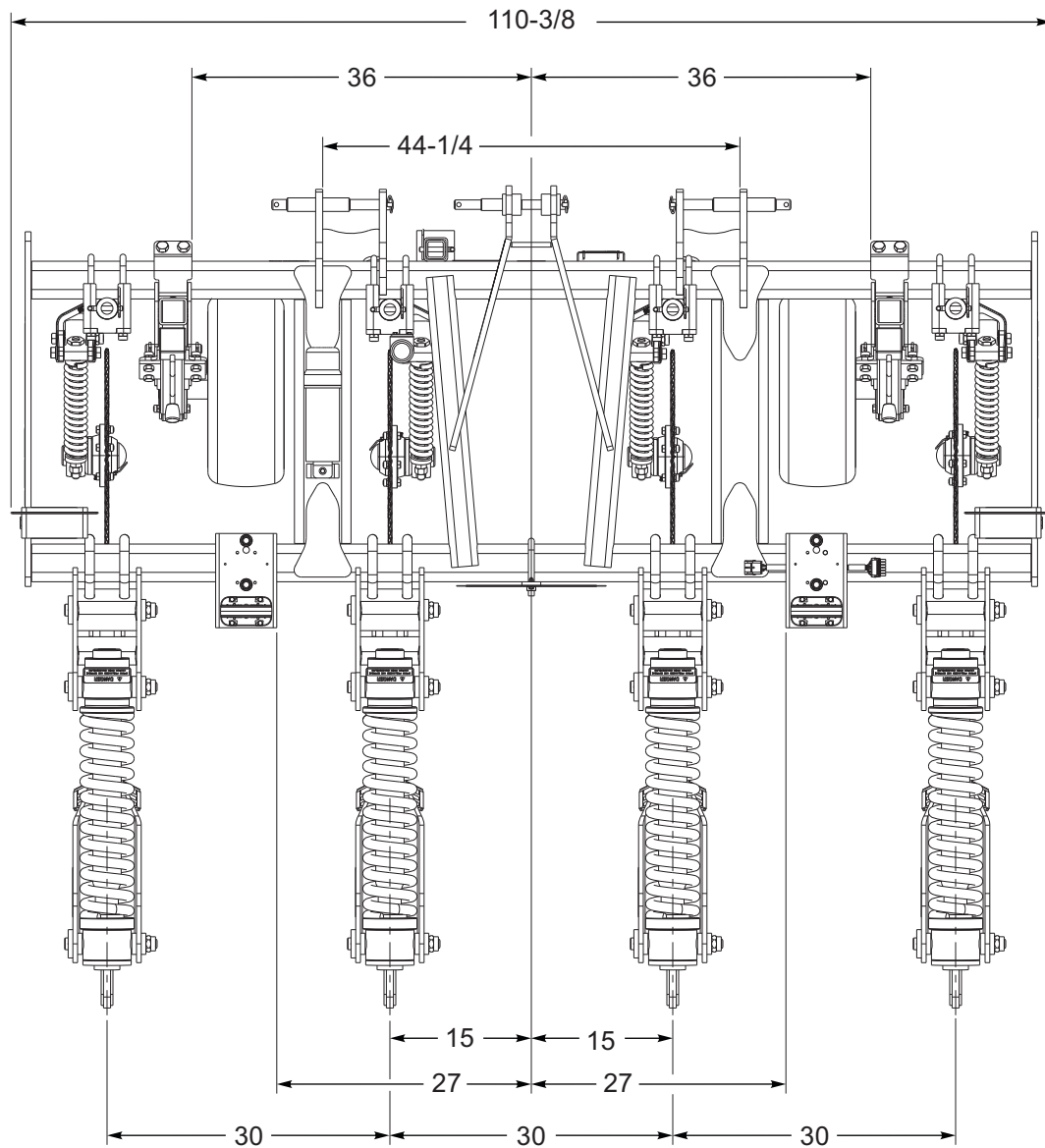


Figure 2-2: 2511N-4-30 Shank and Lighting Placement

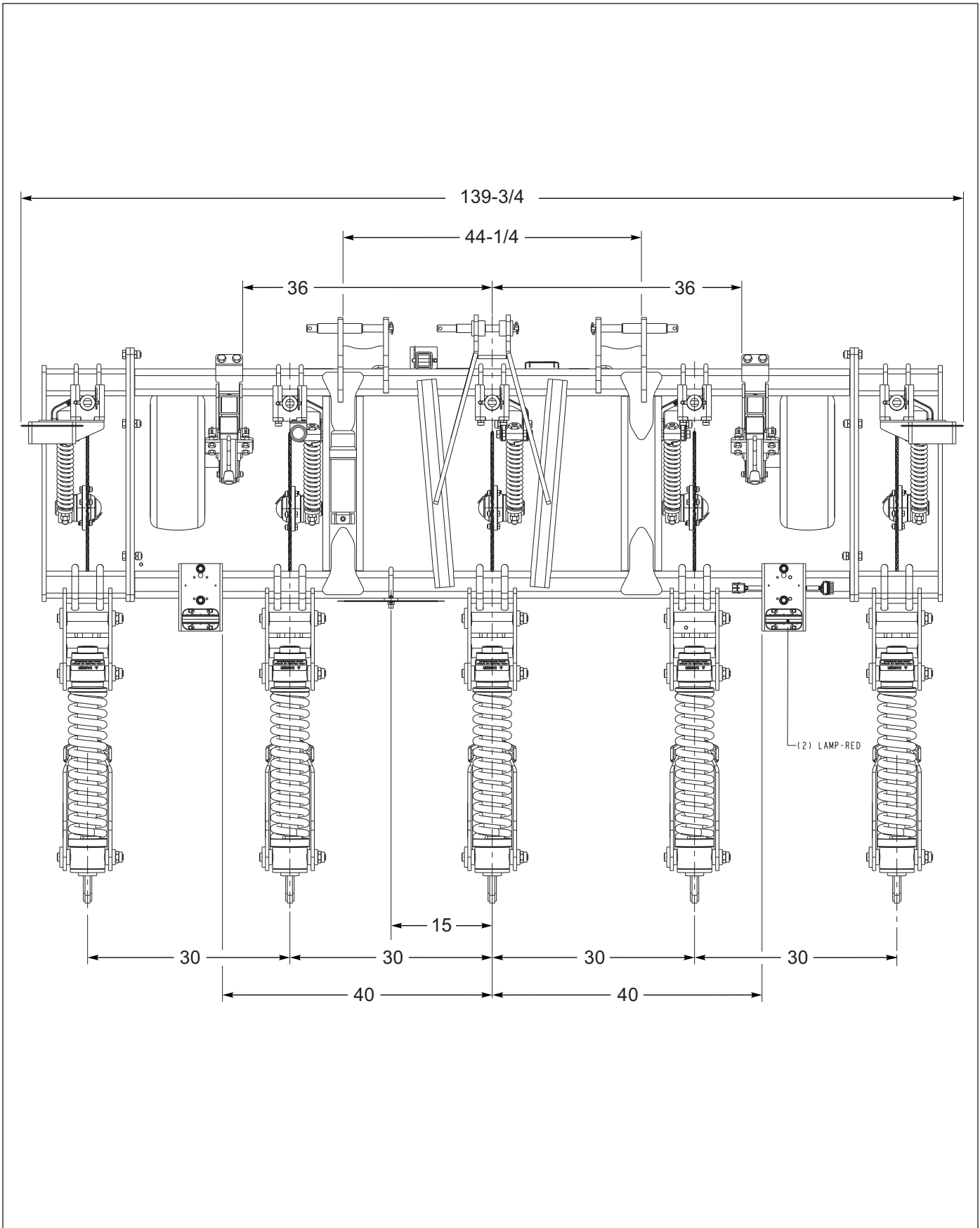


Figure 2-3: 2511N-5-30 Shank and Lighting Placement

Assembly Instructions

It is very important that your new 2511N In-Line Ripper be properly assembled, adjusted, and lubricated before use. Illustrations are provided in this section to show proper assembly procedures. Remove paint from grease fittings and replace any that are damaged or missing. Be sure to return bolts, clips, etc. to their original locations.

To ensure assemblies are aligned, insert all bolts and leave the nuts loose until completion of final assembly. Use lock washers or flat washers where called for. Spread all cotter pins.

After completion of final assembly, tighten all nuts evenly to prevent misalignment, distortion, or binding. Tighten all bolts and nuts to the recommended torques shown on "**General Torque Specifications**" on page 2-2. Tighten all U-Bolt legs evenly.

IMPORTANT

Check all bolt lengths, nut sizes, etc., from the parts book before assembly. Different models of the 2511N In-Line Ripper use different size bolts.

**DANGER**

In the event a shank trips and does not release, do not attempt to release the shank. Contact your Landoll dealer for further instructions. A tripped shank can release suddenly

**DANGER**

Coulter blades are extremely sharp. Use extreme care when working on or near coulter blades. Do not allow coulters to roll over or fall on any part of body. Do not allow wrenches to slip when working near coulter blades. Never push wrenches towards coulter blades. Do not climb over machine above coulter blades. Failure to stay clear of coulter blade edges may result in serious personal injury or death.

**DANGER**

To prevent accidental lowering, lower equipment to the ground while servicing or when it is idle. Failure to take measures to prevent accidental lowering may result in serious personal injury or death.

Assembly Preparation

1. Hook up the Ripper to a tractor using the 3-PT Hitch.
2. Raise the unit about 36" and place stands under the main frame to prevent accidental lowering.



WARNING

Do not attempt to lift heavy parts (such as the frame), manually. Use a hoist or a forklift to move these parts into position.

Jack Stand Installation

1. Remove Jack Stand from frame.
2. Remove Rigid Gauge Adjustment Pin and 3/16 Hairpin from outer Jack Stand Tube.
3. Insert Jack Stand through bottom of Outer Jack Stand Tube and pin at desired level with Rigid Gauge Adjustment Pin and 3/16 Hairpin. *See Figure 3-1.*

SMV Bracket Installation

1. Attach the SMV Mounting Bracket at a point where emblem is visible from rear of machine, using U-Bolt and 5/8-11 Flange Locknuts. *See Figure 3-1.*
2. Attach SMV emblem to top of SMV Mounting Bracket with 1/4-20 x 1 Hex Head Cap Screws, Flat Washers, and Locknuts. *See Figures 3-3 and 3-4.*

Tire and Wheel Assembly

All hubs and spindles come already assembled from the factory. Mount the tire and wheel assembly onto the hubs.

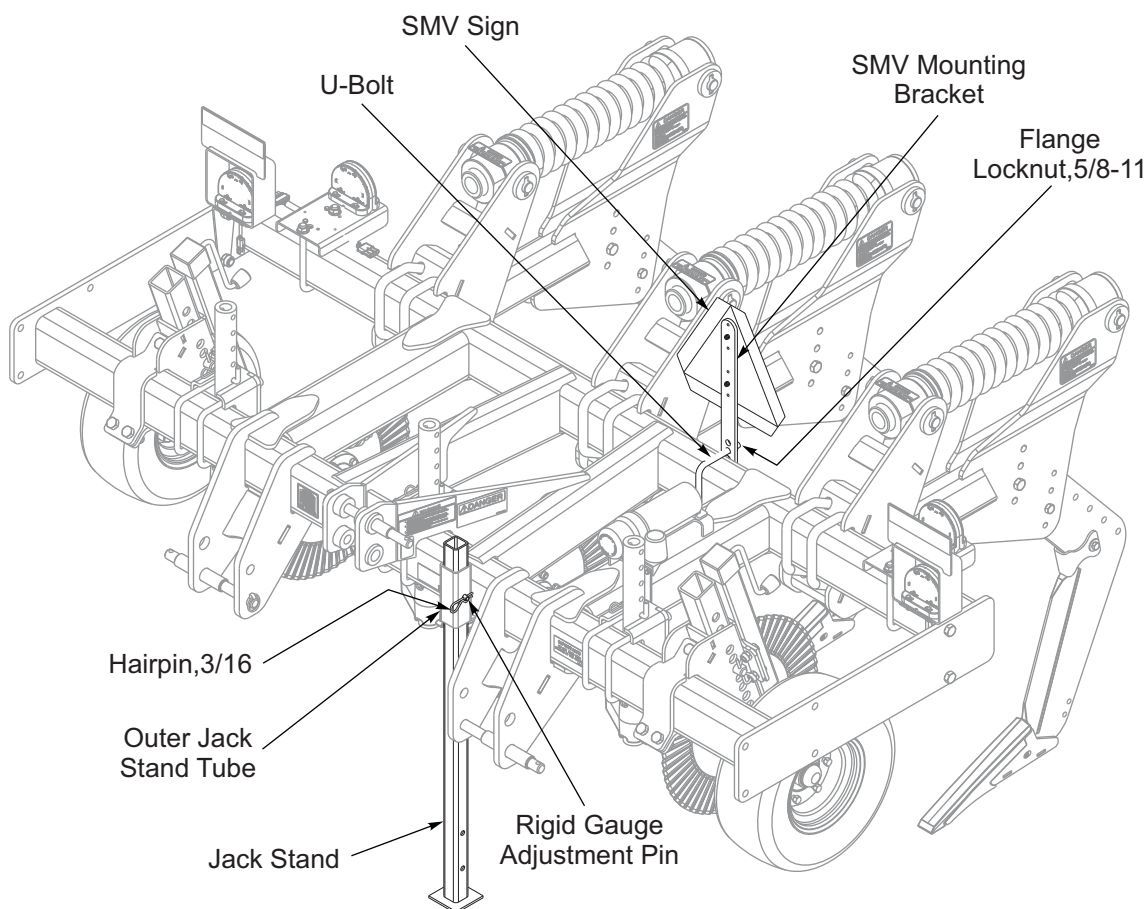


Figure 3-1: Jack Stand and SMV Sign

Shank Assembly

The following instructions are for attaching the shanks to the Auto-Reset Shank Clamp (Spring), or the RSB Shank Clamp. **See Figures 3-1 and 3-2.**

There are three shank options to choose from: Parabolic Shank 1-1/4, Straight Leg Shank 1-1/4, and Straight Leg Shank 3/4 (also known as "Low Disturbance Shank").

1. The Clamp weldments are already located on the frame at the proper spacing.
2. Insert a Connex Bushing (P/N 150244) into the second hole from the upper end of the shank. Attach the shank to the front set of mounting holes in the clamp assembly using a 3/4-10 x 4 Bolt and 3/4-10 Locknut. **(A)**. Attach lower hole of shank to rear set of mounting holes in the clamp assembly using 5/8-11 x 3-3/4 Bolt, and 5/8-11 Locknut. **(B)**.

Adjustment holes are provided in the clamp weldment to compensate for varying ground conditions and depths of operation.

NOTE

Select the relative depth the shank will operate at. The Auto-Reset Shank Clamps have four shank mounting holes. There is approximately a 2" differential between holes. The two lower holes will allow for deeper working depths (16" to 20"). The upper two holes will allow for higher shank point loads. That is to say the upper holes are more conducive to keeping the shanks properly engaged in the ground, in tough conditions.

The RSB Clamp has three holes: the top hole has a maximum operating depth up to 14", the lower two holes have operating depths ranging from 16" to 20".

Landoll recommends using the top upper holes for optimal machine efficiency.

3. Attach shank point to each shank using 1/2 x 2 and 5/16 x 2 Spring Slotted Pins. Place pins with open ends oriented opposite of each other.

For Parabolic Shank 1-1/4, manufactured before 08/30/2020 use 3/8 x 2 Slotted Roll Pin.

4. Place Wearstrip on shank leg with the lower Wearstrip tab in the pocket the shank point provides.

NOTE

Assembling the shank point first will provide a provision for securing the lower tab of the Wearstrip when it is assembled.

5. Secure Wearstrip to shank leg using Wearstrip Bracket, with appropriate 1/2-13 x 2-3/4 Bolts, 1/2 Flat Washers and 1/2-13 Locknuts. **(C)**.



WARNING

Shank Clamp Mounting Bolts **MUST BE TIGHTENED** to 200Ft-Lbs (3/4-10 x 4), and 170 Ft-Lbs (5/8-11 x 3-3/4) respectively. Failure to do so may cause Shank Clamp damage. (SEE STEP 2, (A) AND (B).



DANGER

Auto-Reset Spring Clamp is **NOT** to be operated at depths greater than 14".

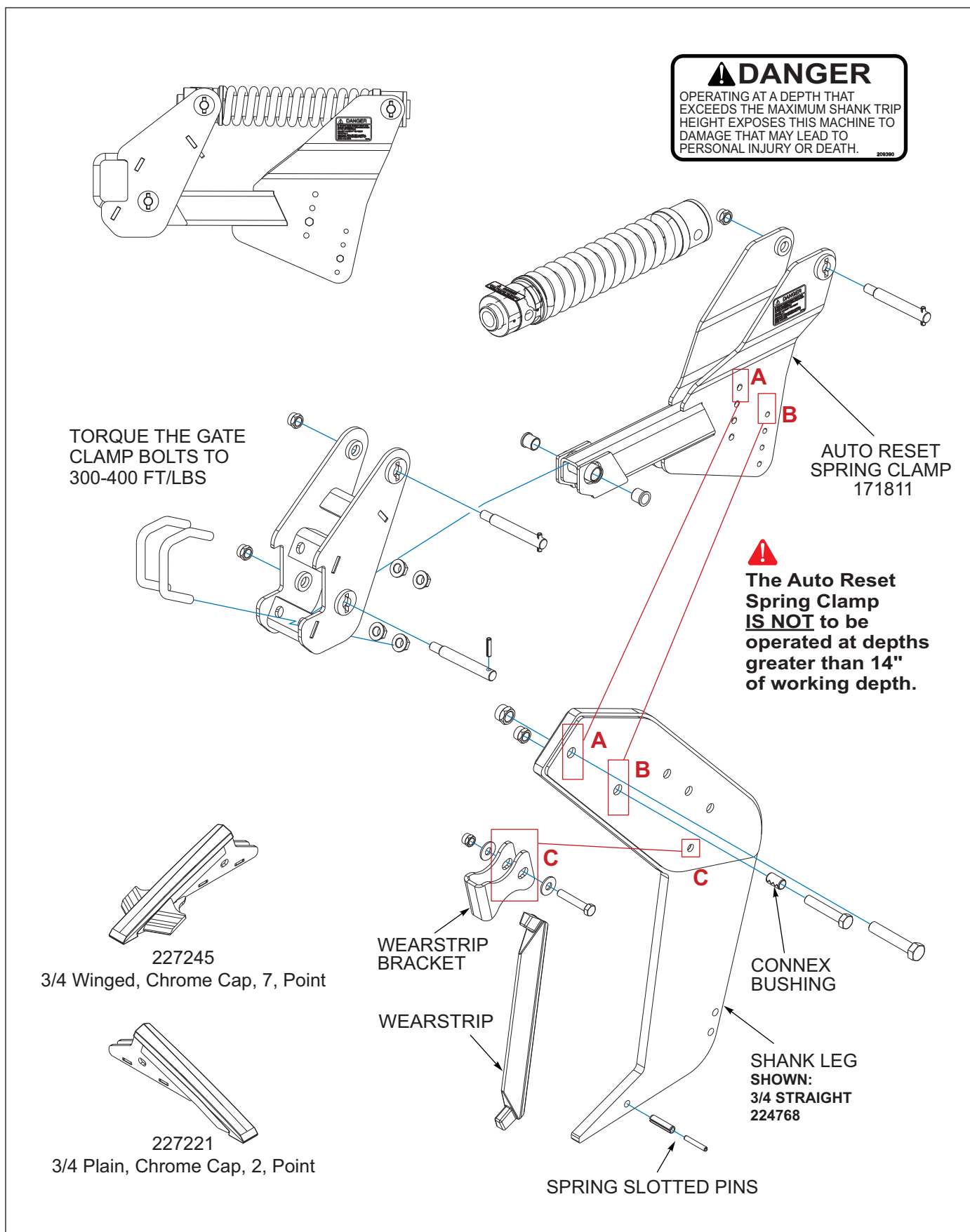


Figure 3-1: Auto-Reset Shank Clamp (Spring)

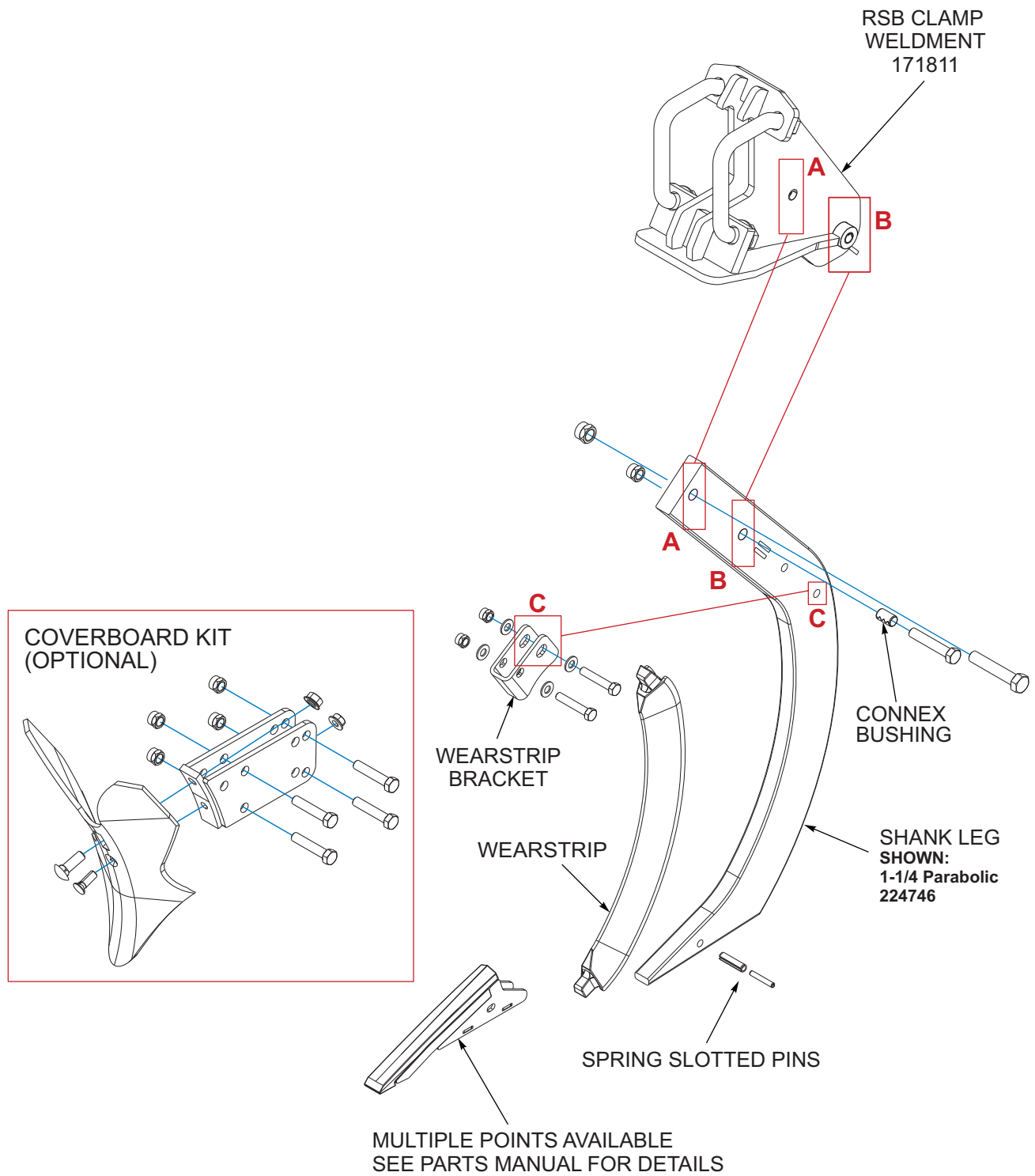


Figure 3-2: RSB Shank Clamp

Coverboard Installation

1. Insert four 1/2-13 x 2-1/2 Bolts into the Coverboard Bracket before attaching the Coverboard Furrower.
See Figure . Secure with 1/2-13 Locknuts and tighten only so that locking portion of nut engages the thread. The customer will tighten these nuts after mounting to shank.
2. Tighten the 7/16-14 Flange Nut to the 7/16-14 x 1-1/4 Plow Bolt before tightening the 1/2-13 Locknut to the 1/2-13 x 1-1/2 Roundhead Bolt. This is to ensure that the point of the Coverboard Furrower is pulled tightly against the Bracket. Make sure that the Plow Bolt Head is flush with the surface of the Coverboard Furrower. **See Figure 3-3.** This hardware should be tightened now.

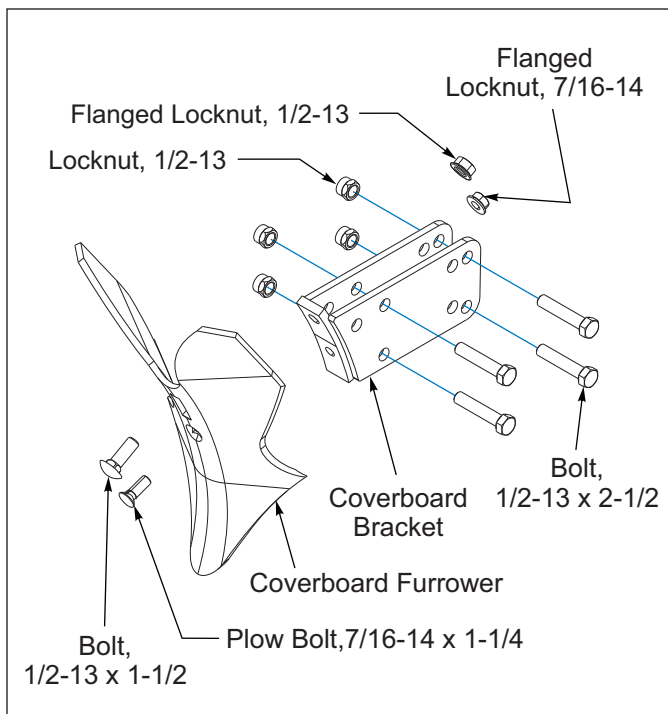


Figure 3-3: Coverboard Installation

Coulter Assemblies - Right Hand and Left Hand

1. Assemble Coulter Adjustment Tube to Coulter Assembly with Roll Pins $1/2 \times 4$ and $5/16 \times 4$. Assemble the Coulter Stop to the Coulter Adjustment Tube with $1/2 \times 4$ Screw and Nut. **See Figure 3-2.**
2. Install the Coulter Adjustment Tube and Coulter Assembly to the frame using the Coulter Clamp Tube, U-Bolts, Clamp Plate and $5/8-11$ Locknuts. Do not tighten nuts until the depth adjustment is completed.
3. Use Adjustment Pin and $3/16$ Hairpin to set desired depth. Tighten $5/8$ Locknuts on the U-Bolts.
4. Attach Coulter Blade to Coulter Assembly with $1/2 \times 1-1/2$ Screws and Locknuts.

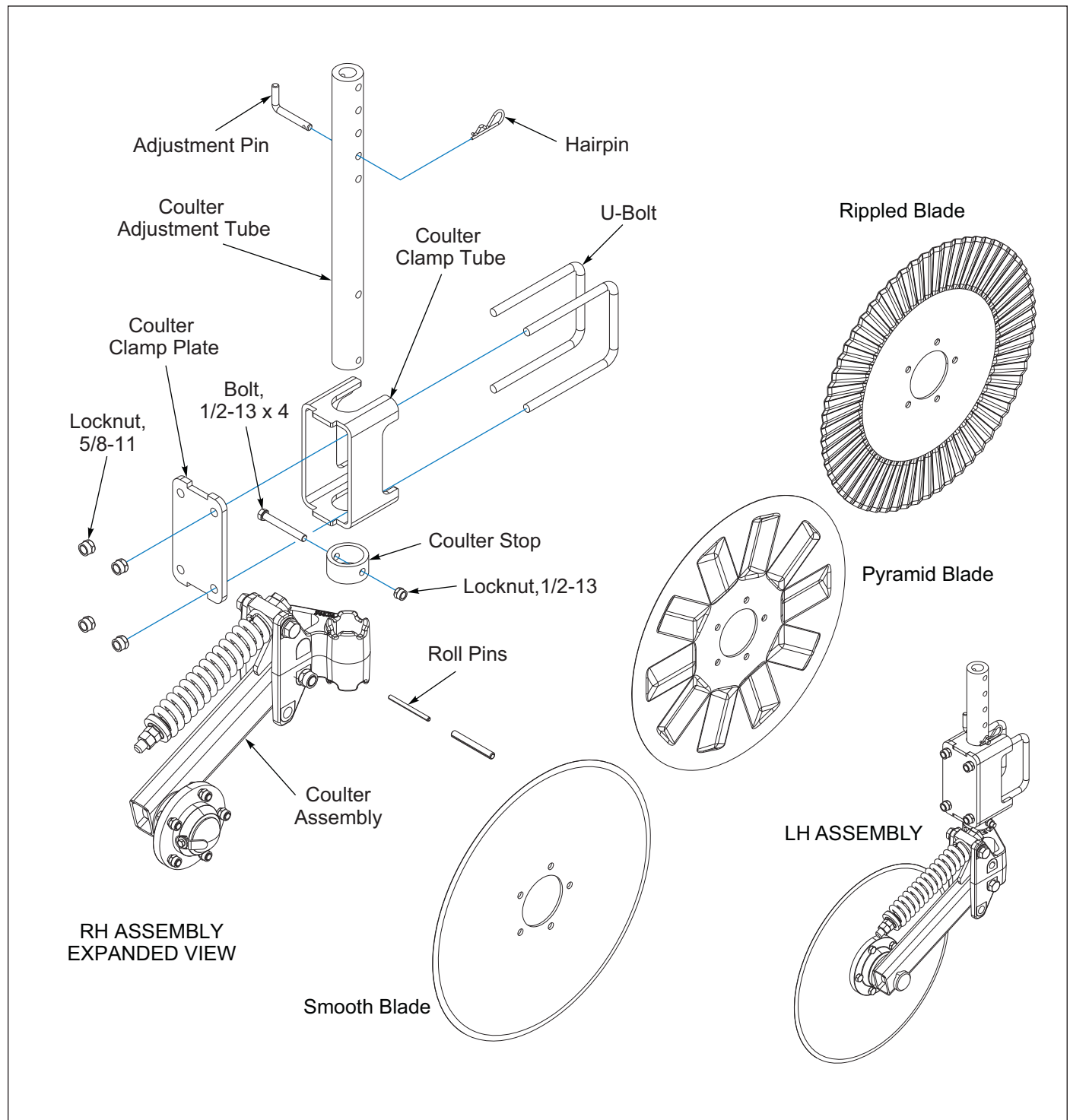


Figure 3-2: Coulter Assembly

NOTES:

[illegible]

Warning Lamps Installation

NOTE

Be sure when assembling Lamps onto Bracket that the wires are not pinched when tightening hardware.

FOR 3 AND 4 SHANK MODELS:

1. Attach left and right Amber Light Mount Brackets to frame using 3/4-10 x 1-3/4 Screws and Locknuts. *See Figure 3-3.*
2. Place the Light Mount Bracket with Reflectors on top of the Light Mount Bracket. Position the Amber Lamps into the Light Bracket Assembly and secure the assembly with 1/4-20 x 1-1/4 Screws and Locknuts.
3. Attach left Red Light Tail Mount Bracket to the frame using U-Bolt and 5/8-11 Flange Nuts.
4. Attach right Red Light Tail Mount Bracket and AG Flasher Control Module to frame assembly using U-Bolt and 5/8-11 Flange Nuts. Be sure that the AG Flasher Control Module is set so that the 4-Pin Connector faces the right side of the machine.
5. Attach Red Lamps to Light Tail Mount Brackets with 1/4-20 x 1-1/2 Screws and Locknuts.

IMPORTANT

Make sure lights are positioned for maximum visibility from the rear.

6. Install the Warning Light Harness to the frame. Connect 2-Pin and 3-Pin ends to each of the Warning Lights. Connect 6-Pin to the Ag Flasher Control Module.
7. Attach 7-Pin/4-Pin 120" Harness to frame. Connect 4-Pin end to the AG Flasher Control Module.
8. Ensure that the harnesses are clear of any moving parts and secure the harnesses with Tie Wraps provided.
9. Install the Stor-Away Holder Bracket onto the existing bolt in Coulter Clamp Plate and assemble Light Mount Reflector Bracket to the Bracket Holder with 1/4-20 x 3/4 Screws and Locknuts.

FOR 5 SHANK MODELS:

1. Attach left and right Amber Light Mount Brackets to the existing bolt in Coulter Clamp Plate. *See Figure 3-4.*
2. Place the Light Mount Bracket with Reflectors on top of the Light Mount Bracket. Position the Amber Lamps into the Light Bracket Assembly and secure the assembly with 1/4-20 x 1-1/4 Screws and Locknuts.
3. Attach left Red Light Tail Mount Bracket to the frame using U-Bolt and 5/8-11 Flange Nuts.
4. Attach right Red Light Tail Mount Bracket and AG Flasher Control Module to frame assembly using U-Bolt and 5/8-11 Flange Nuts. Be sure that the AG Flasher Control Module is set so that the 4-Pin Connector faces the right side of the machine.
5. Attach Red Lamps to Light Tail Mount Brackets with 1/4-20 x 1-1/2 Screws and Locknuts.

IMPORTANT

Make sure lights are positioned for maximum visibility from the rear.

6. Install the Warning Light Harness to the frame. Connect 2-Pin and 3-Pin ends to each of the Warning Lights. Connect 6-Pin to the Ag Flasher Control Module.
7. Attach 7-Pin/4-Pin 120" Harness to frame. Connect 4-Pin end to the AG Flasher Control Module.
8. Ensure that the harnesses are clear of any moving parts and secure the harnesses with Tie Wraps provided.
9. Install the Stor-Away Holder Bracket onto the existing bolt in Coulter Clamp Plate and assemble Light Mount Reflector Bracket to the Bracket Holder with 1/4-20 x 3/4 Screws and Locknuts.

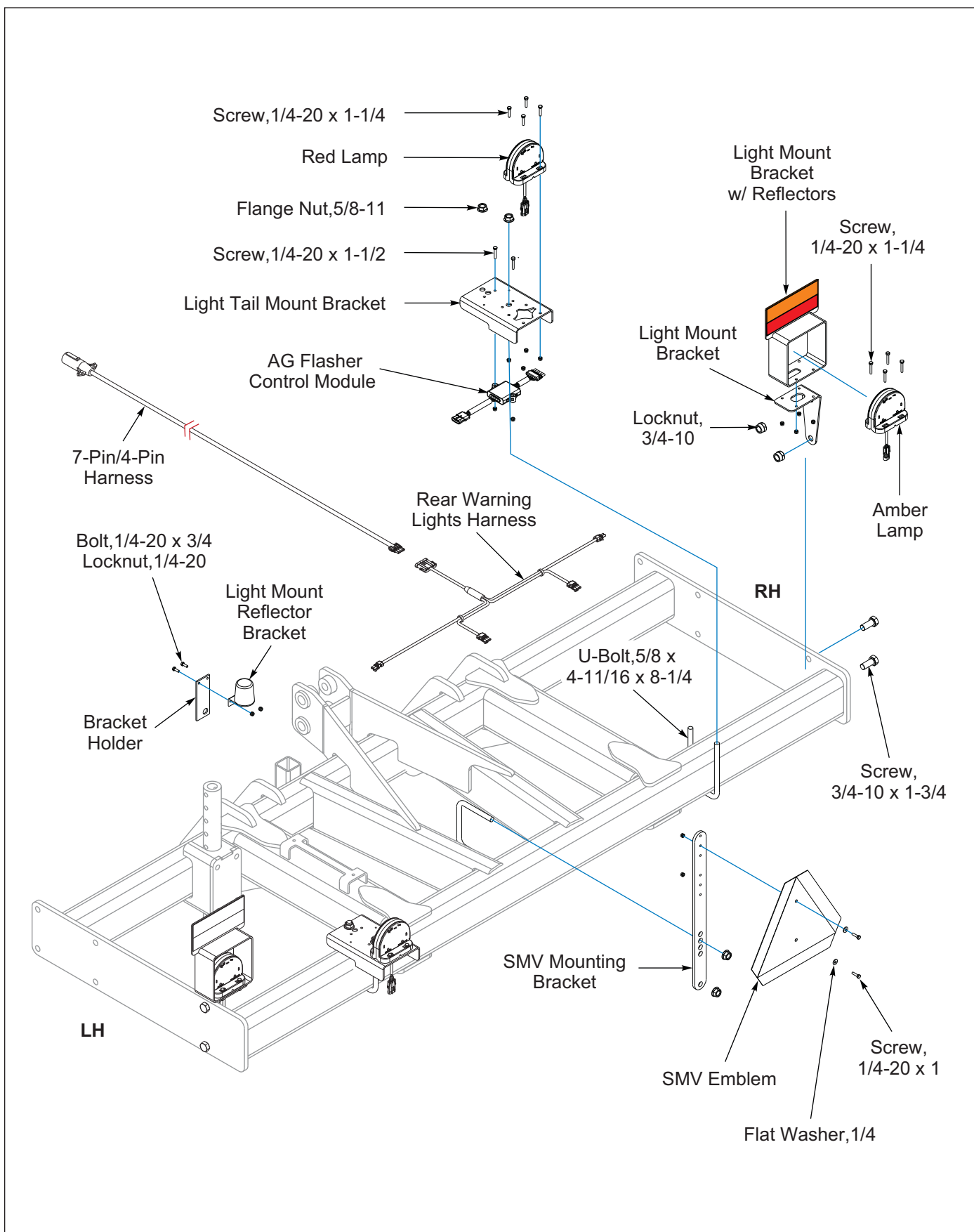


Figure 3-3: Warning Lamps and SMV Bracket Installation - 3, 4 Shanks

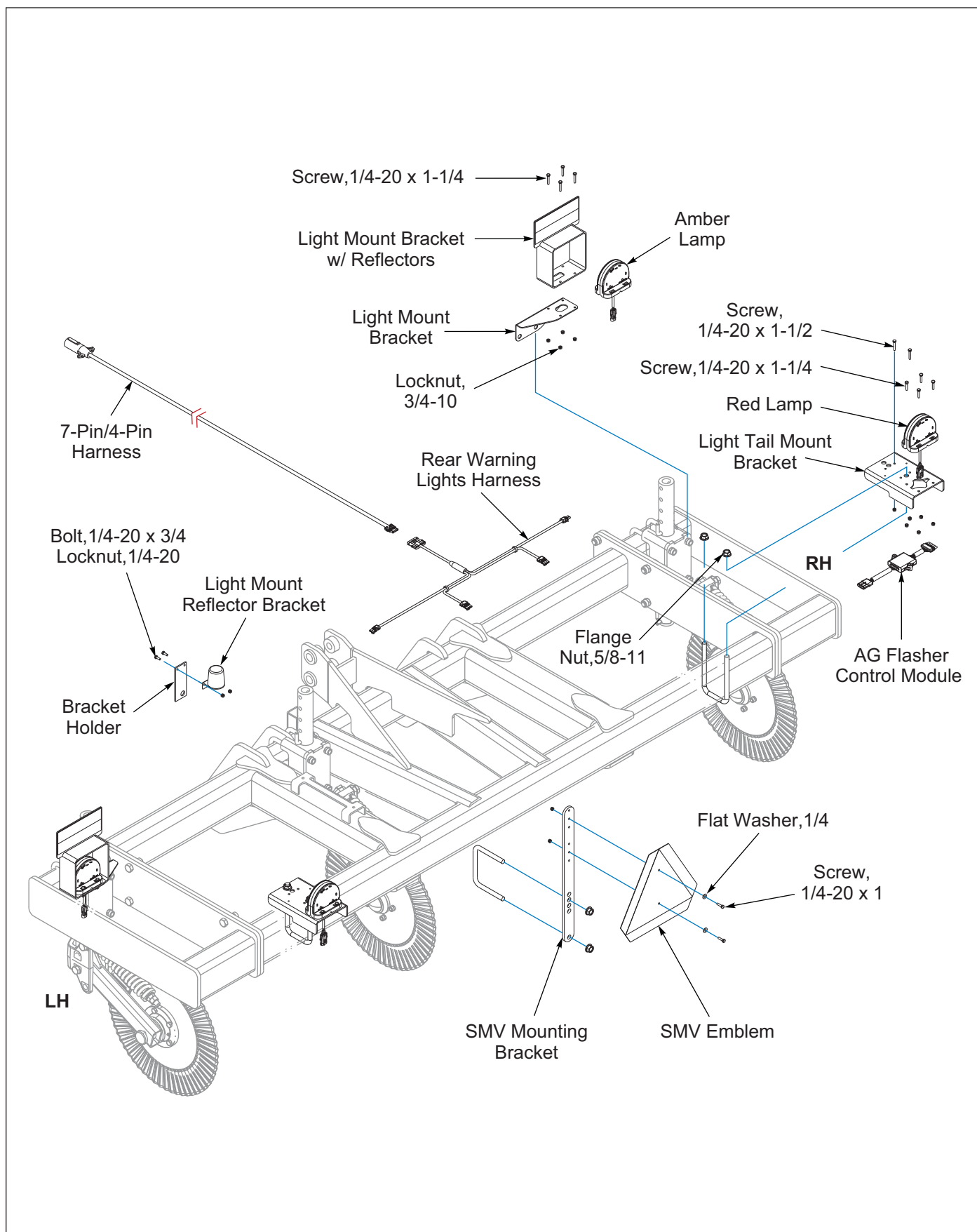


Figure 3-4: Warning Lamps and SMV Bracket Installation - 5 Shanks

7-PIN CONN.	4-PIN TOWER	CIRCUIT	WIRE COLOR
1	D	GROUND	GROUND
2	–	WORK LAMPS	BLACK 
3	B	LEFT FLASHING & TURN	YELLOW 
4	–	STOP LAMPS	RED 
5	A	RIGHT FLASHING & TURN	GREEN 
6	C	TAIL LAMPS	BROWN 
7	–	SWITCHED POWER (12 V)	BLUE 

LED WARNING LIGHT HARNESS - WIRING CHART

	1	2	3	4	5
	2-PIN TOWER	3-PIN TOWER	6-PIN SHROUD	3-PIN TOWER	2-PIN TOWER
 BLACK LEFT TURN			A	C	
 WHITE GROUND	A	A	B	A	A
 BROWN TAIL LIGHT		B	C	B	
 YELLOW LEFT TURN			D		B
 GREEN RIGHT TURN	B		E		
 RED RIGHT TURN		C	F		

7-PIN/4-PIN LIGHT HARNESS - WIRING CHART

Figure 3-5: Warning Lamp and SMV Harness Wire Designs

Finishing Features - Optional

The Closer Platform offers 6 different mounting features: Closer Wheel, Flat Bar Basket 20", Closer Disc, Crumbler Wheel, Packer Reel or Treader. **See Figure 3-1.**

ALWAYS REPLACE PARTS WITH UPDATED CLOSER PLATFORM. **See Figure 3-2.**

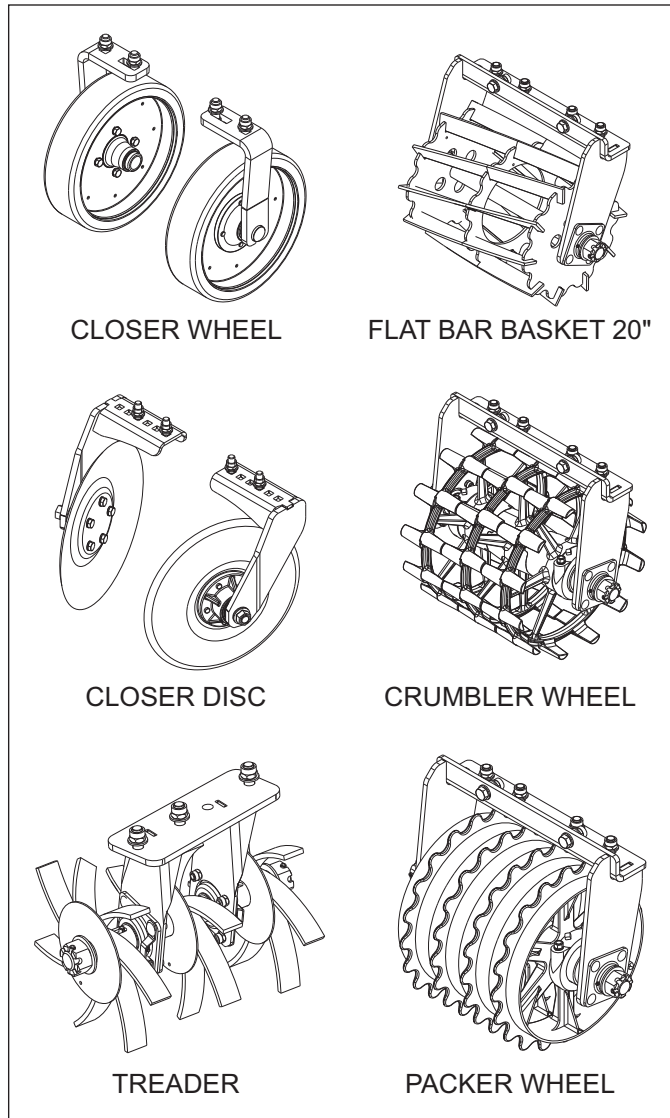


Figure 3-1: Closing Platform Finishing Features

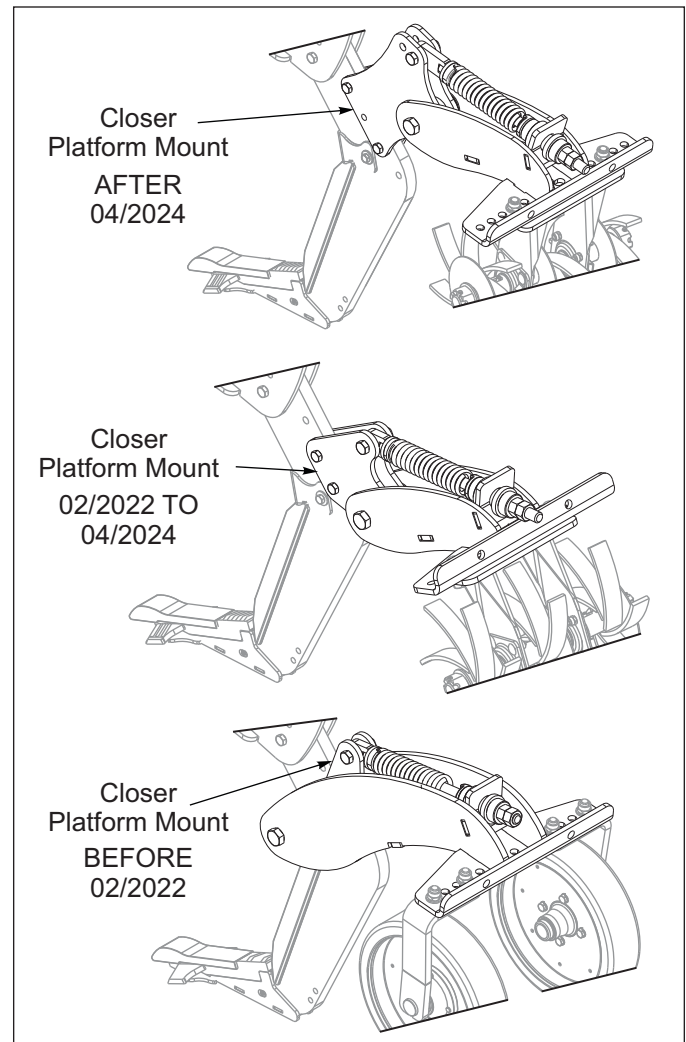


Figure 3-2: Closer Platform Assemblies

Closing Platform Spring Set Up Instructions (After 04/2024)

NOTE

When setting up the Ripper to operate at 12" or less depth, position the Closer Pivot Mount in the lowest position on the (4-Hole) Shank. (Using the top two holes on the Closer Pivot Mount and the bottom two holes of Shank)

When setting up the Ripper to operate at 12" to 16" depth, position the Closer Pivot Mount in the center position on the (4-Hole) Shank.

When setting up the Ripper to operate at 16" or greater depth, position the Closer Pivot Mount in the upper position on the (4-Hole) Shank.

1. Install Closer Pivot Mount to desired depth position on Shank.
2. Refine the depth position using the Spring Rod Adjustment Holes.

ASSEMBLY INSTRUCTIONS

3. Use the Spacers/Bushings on either side of the Slide Bushing to fine tune the down pressure.
 - **To increase the down pressure**, place both Spacers between the Rear Spring Keeper and the Slide Bushing.
 - **To decrease the down pressure**, place both Spacers between the Retaining Washer and the Locknuts.

NOTE

The Large Retaining Washer must always be on the back side of the Slide Bushing.

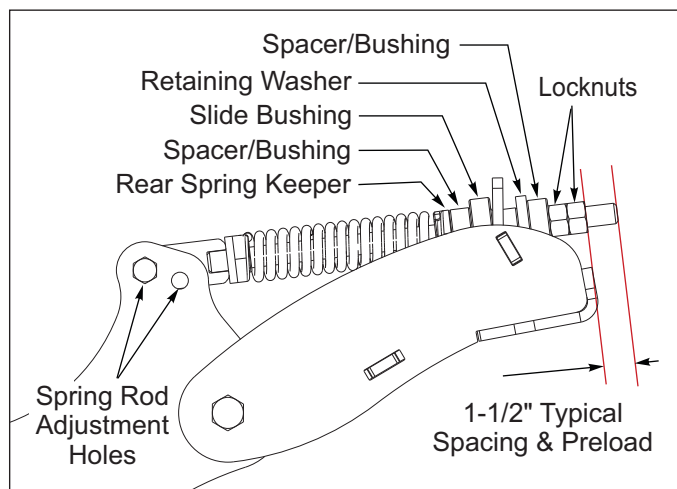


Figure 3-3: Closer Platform Spring Setup (After 04/2024)

Closing Platform Spring Set Up Instructions (02/2022 to 04/2024)

NOTE

When setting up the Ripper to operate at 14" or less depth, position the Closer Pivot Mount in the lower two holes of the shank.

When setting up the Ripper to operate at 14" or greater depth, position the Closer Pivot Mount in the upper two holes of the shank.

Use the Spacers/Bushings on either side of the Slide Bushing to fine tune the down pressure.

- **To increase the down pressure**, place both spacers between the Rear Spring Keeper and the Slide Bushing.
- **To decrease the down pressure**, place both spacers between the Retaining Washer and the Locknuts.

NOTE

The Large Retaining Washer must always be on the back side of the Slide Bushing.

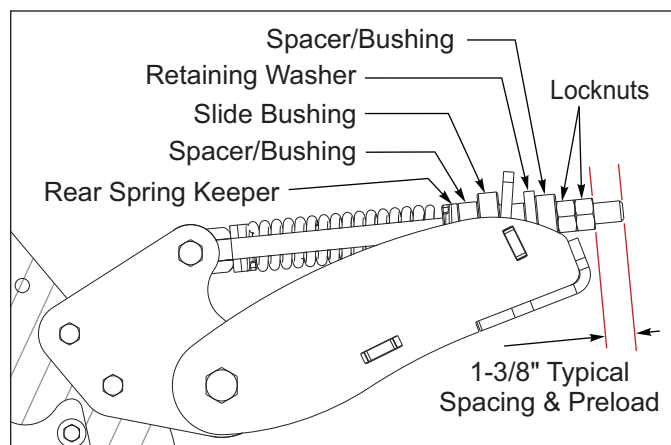


Figure 3-4: Closer Platform Spring Setup (02/2022 TO 04/2024)

Closing Platform Spring Set Up Instructions (Before 02/2022)

NOTE

When setting up the Ripper to operate at 14" or less depth, position the Closer Pivot Mount in the lower two holes of the shank.

When setting up the Ripper to operate at 14" or greater depth, position the Closer Pivot Mount in the upper two holes of the shank.

- **For operating depths of 14" or less**, place both Spacers between the Rear Spring Keeper and the Rod Glide.
- **For operating depths of 14" to 17"**, place one of the spacers between the Rear Spring Keeper and the Rod Glide. Place the other Spacer between the Washer and the Locknuts.
- **For operating depths of 17" or greater**, place both Spacers between the Washer and the Locknuts.

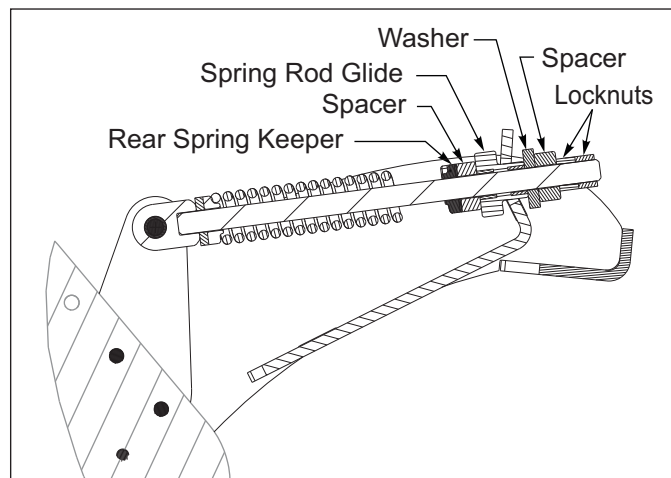


Figure 3-5: Closer Platform Spring Setup (Before 02/2022)

Operation and Maintenance

**DANGER**

Coulter blades are sharp. Do not allow coulters to roll over or fall on any part of the body. Do not allow wrenches to slip when working near coulter blades. Do not climb over machine above coulter blades. Failure to stay clear of coulter blade edges may result in serious personal injury or death.

**WARNING**

All hydraulically elevated equipment must be locked out or lowered to the ground when servicing or when equipment is idle, to prevent accidental lowering. Failure to take measures to prevent accidental lowering may result in serious personal injury.

**DANGER**

Never allow anyone to ride on the In-Line Ripper at any time. allowing a person to ride on the In-Line Ripper may result in serious personal injury or death of that person.

**CAUTION**

Whenever transporting farm implements on public roads, it is the responsibility of the operator to abide by state and local laws concerning wide loads, speed, safety emblems, and safety lighting equipment. Drive at safe speeds, particularly when rounding corners, crossing rough ground, on hillsides, to prevent tipping.

Tractor Preparation

The 2511N Rigid In-Line Ripper may be used on tractors equipped with Category 2 or 3N 3-PT Hitches. Before attaching the Ripper, prepare the tractor as follows:

- The rear tractor tires should be inflated equally and ballast added according to the tractor operator's manual.
- For mounted type models, install front end weights as needed on tractor to maintain stability.

In-Line Ripper Operation

1. Before operating the In-Line Ripper, inspect it to be sure it is in good operating condition.
2. Replace badly worn or missing parts.
3. While the machine is new, bolt tightness should be checked after a few hours of operation. Tighten any loose nuts or cap screws. Check the gauge wheel lug bolts daily.
4. Check the gauge wheel tire inflation. All tires should be equally inflated to avoid side draft.

Attaching to 3-PT Hitch

1. Carefully back the tractor into place.
2. Attach the Ripper to the tractor.
3. **For tractors equipped with Quick Hitches:**
 - Attach Quick Hitch to the Ripper
 - Raise and make sure lower pin locks are secured.
 - Raise the Parking Stand and pin in fully up position.
 - When disconnecting the Ripper, adjust stands to leave the toolbar tilted slightly forward. This will permit easier disconnecting and reattaching.

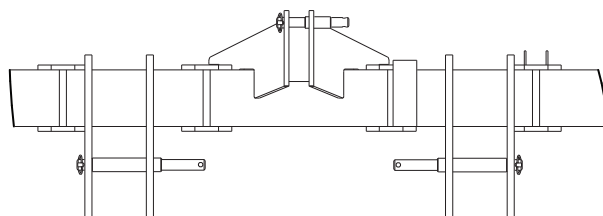
For tractors not equipped with Quick Hitch:

- Attach lower lift arms of the tractor to the Ripper utilizing appropriate pins. 2511N models come with either Category 2 & 3NARROW hitches. *See Figure 4-1.*
 - Attach top link after connecting lower lift arms. Raise parking stands into clamps or remove. When disconnecting, place stand so that the Ripper is stable.
4. Reinstall the stabilizer bars or sway blocks before transporting

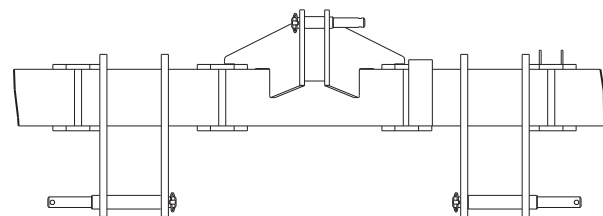


CAUTION

Do not move tractor without making sure top hitch is connected to tractor.



CAT 2 HITCH



CAT 3 NARROW HITCH

Figure 4-1: 2511N 3-PT Hitch Setup

Field Operation - 3-PT Hitch

1. Lower the Ripper to the ground and pull it a few feet at the approximate desired depth.
2. Check for front-to-rear levelness. Level the frame by adjusting the 3-PT Hitch top arm until the frame is level to the ground.
3. Set the depth by adjusting the Gauge Wheels. For stability, it is important that the Gauge Wheels always apply slight pressure against the soil. Adjust the Gauge Wheels as follows:
 - Remove 1/4 Hairpin and 1 x 6 Pin.
 - Crank Jack up or down to desired depth.
 - Line up holes in Spindle and Clamp weldments. Replace Pin and Hairpins into Gauge Wheel Assembly.
4. Always lift the Ripper completely out of the ground before turning or backing to prevent shank or coulter damage or damage to their respective mounting brackets.
5. Reduce speed at field ends, raise the Ripper out of the ground, and assist turning by using the wheel brakes, if necessary.
6. After a few hours of initial operation, check all cap screws for tightness. Tighten any loose cap screws.
7. Coulters should be adjusted to operate only deep enough to be in firm soil and cut the residue. Generally, the harder the soil, the less pressure should be used on the coulters. Adjust the single coulters by loosening the coulter mount U-Bolts, sliding the coulter up or down as needed and retightening.

Wheel Bearing Maintenance

Check wheel bearings and coulter bearings occasionally for excessive end play. To correctly replace the wheel bearings:

1. Place the frame on blocks or stands sufficient to lift the tire clear of the ground.
2. Remove the Hub Cap, Cotter Pin, Slotted Nut, and Washer.
3. Remove the Hub. Clean and inspect the bearings and hub cavity. Replace any worn or defective parts.
4. Repack the bearings using a high-quality wheel bearing grease.
5. Replace the Hub with a new seal and Inner Bearing in place.
6. Install the Outer Bearing Cone, Washer, and Slotted Nut.
7. Tighten the Slotted Nut while rotating the hub until there is a slight resistance to wheel rotation. Back the Slotted Nut off one notch until the wheel rotates freely without end play.
8. Install a new cotter pin and the hub cap.
9. Wheel bearing maintenance should be performed at the beginning of every season of use.

Coulter Spring Adjustment

No spring adjustment is necessary on the coulters. All adjustments were made before shipping at the factory. Initial operating force to move coulter upwards is 540 pounds. The preload has proved to be more than adequate for most conditions.

IMPORTANT

The coulters should NOT be run more than 2-3" deep.



CAUTION

Any attempt to make coulter force greater than factory setting may contribute to premature failure of parts and warranty shall be null and void.

Lubrication

When lubricating the machine, SAE multi-purpose EP grease, or EP grease with 3-5% molybdenum sulfide is recommended. Wipe soil from fittings before greasing. Replace any lost or broken fittings immediately.

- Grease Coulter Hub and Swivel Mount Casting after 20 hours of use.
- Grease Wheel Hubs after 50 hours of use.
- Grease Finishing Options (ie. Closer Wheel, Flat Bar Basket, Closer Disc, Crumbler Reel, Packer Reel, Treader) after 10 hours of use.

Storage

1. The service life of the Ripper will be extended by proper off-season storage practices. Before storing, complete the following procedures:
 - Completely clean the unit.
 - Inspect the machine for worn or defective parts. Replace parts as needed to avoid delays the following season.
 - Repaint all areas where the original paint film is worn off.
 - Grease all exposed metal surfaces of shanks, points, and coulters.
 - Lubricate as suggested in ***"Lubrication" on page 4-4.***
2. Store the unit in a shed or under a tarpaulin to protect it from the weather. The ground tools and tires should rest on a board or other device to keep them out of the soil.
3. Lower the Ripper on a flat or even surface.
4. Lower Jack Stand.
5. Block tires before unhitching from tractor.

Troubleshooting

The Troubleshooting Guide, shown below, is included to help you quickly locate problems that can happen using your 2511N In-Line Ripper. Follow all safety precautions stated in the previous sections when making any adjustments to your machine.

PROBLEM	PROBABLE CAUSE	SOLUTION
Spikes do not penetrate to desired depth	Coulters set too deep	Adjust coulters up, to just run in firm soil, to cut residue.
	Spikes worn back	Replaces spikes
	Lower hitch arms in lower holes of pull bracket	Move hitch arms to upper hole in pull brackets.
	Implement not level	Adjust top 3-PT Link.
Unit bounces or not working at uniform depth	Gauge Wheels not set at correct depth	Adjust Gauge Wheels to correct depth. Gauge Wheels, not the 3-PT Hitch, should carry the load.
		Adjust all Gauge Wheels to same depth.
	Tire pressure not equal	Inflate all tires to the same pressure.
	Lower hitch arms not set to same height	Measure lower hitch arms and adjust to uniform length.
Residue Hangs on Shanks	Coulter not set deep enough	Adjust coulter down to run in firm soil, to cut residue.
	Gauge Wheel too close to shank	Position Gauge Wheel on frame for maximum clearance to Shanks.
	Coulter not aligned	Check coulter alignment on front bar.
	Soil too wet causing hairpinning of residue	Let soil dry.

[illegible]

Warranty Registration

To be eligible for Warranty, registration must be on file at Landoll Company, LLC. It is the responsibility of the dealer to register the machine within 10 days of purchase or lease on the Dealer Portal. Check with the dealer to verify the machine has been registered.

NOTE: IMPROPER ASSEMBLY, MODIFICATION, OR MAINTENANCE OF YOUR LANDOLL MACHINE CAN VOID YOUR WARRANTY.

Landoll reserves the right to make changes and/or add improvements to it's products at any time without obligation to previously manufactured equipment.

Please take time to complete the following information for your personal reference, should you need to contact your Dealer with questions or parts needs.

MODEL _____

SERIAL # _____

DATE OF PURCHASE _____

DEALER NAME _____

Landoll Company, LLC. would like to thank you for purchasing our product. Our team has spent considerable time and effort to research, design, test and develop this machine and are confident it will serve you in the use for which it was designed.



LANDOLL TILLAGE PRODUCT THREE YEAR LIMITED WARRANTY

Landoll Company, LLC warrants each new serial numbered Whole Good Tillage product, when properly assembled, adjusted, serviced, and normally operated, to be free from defects in materials and workmanship for a period of three (3) years, unless otherwise noted, from the date of delivery. Date of delivery shall be the date the Dealer places the product in the possession of the original retail purchaser, and must be confirmed by the Dealer submitting a properly completed Landoll Company, LLC Warranty Registration Form to the Landoll Company, LLC Warranty Department. Warranty starts the day the product is rented or leased. This limited warranty shall be transferable until the expiration date.

Landoll Company, LLC shall repair, or at its option, replace any part(s) of the product determined, by Landoll Company, LLC, to be defective. Landoll Company, LLC may request the return of part(s), freight prepaid via a carrier approved by the Landoll Warranty Staff, to Landoll Company, LLC for further evaluation. If the part is determined to be defective, Landoll Company, LLC will refund the freight charges incurred in returning the defective part(s).

This limited warranty requires pre-authorization by the Landoll Company, LLC Warranty Staff of any warranty related utilization of components or labor, and is subject to specific exclusions and does not apply to any product which has been: 1) subjected to or operated in a manner which, at any time, have exceeded the product design limits; 2) repaired or altered outside our factory in any way so as, in the judgment of Landoll Company, LLC, to affect its stability or reliability; 3) subject to misuse, negligence, accident, or has been operated in a manner expressly prohibited in the instructions; or not operated in accordance with practices approved by Landoll Company, LLC. Operating the product in soils containing rocks, stumps or obstructions may void the warranty in its entirety. Excessive acres, consistent with non-seasonal very large farming operations, and, non-agricultural activities, may further limit the terms of this warranty. The sole obligation of Landoll Company, LLC under this warranty shall be limited to repairing or replacing, at its option, part(s) which shall be identified to Landoll Company, LLC by way of a pre-authorized Landoll Company, LLC Warranty Claim Form. Warranty, expressed or implied, will be denied on any product not properly registered with the Landoll Company, LLC Warranty Department within ten (10) days of the first retail sale. As stated above, Landoll Company, LLC Warranty Staff will identify components listed on a Warranty Claim required to be returned for further analysis. All parts returned to Landoll Company, LLC must be shipped with a Return Materials Authorization (RMA) provided by the Landoll Company, LLC Warranty Staff. Defective components must be returned by the purchaser to Landoll Company, LLC with transportation and freight charges prepaid within thirty (30) days after receipt of the RMA. The examination conducted by Landoll Company, LLC of returned parts shall disclose to its satisfaction the extent the component may be defective.

All parts and labor warranty MUST be pre-authorized by Landoll Company, LLC Warranty Staff. Failure to do so may result in no warranty payment of any kind. Labor will be reimbursed in accordance with published shop rates pre-approved by the Landoll Company, LLC Warranty Staff. Time authorized for specific work will be limited, where appropriate, to the hours listed in the Landoll Company, LLC authorized Labor Rate Guide.

...continued on following page.

Figure 6-1: Landoll Tillage Product Warranty (1 of 2)

LANDOLL TILLAGE PRODUCT THREE YEAR LIMITED WARRANTY

...continued from previous page.

USER'S OBLIGATION:

1. Read the Operator's Manual.
2. Understand the safe and correct operating procedures pertaining to the operation of the product.
3. Lubricate and maintain the product according to the maintenance schedule in the Operator's Manual.
4. Inspect machine and have parts repaired or replaced when continued use of the product would cause damage or excessive wear to other parts.
5. Contact the Landoll Company, LLC Dealer for repair or replacement of defective parts. Mileage incurred by the Landoll Company, LLC Dealer is the customer's responsibility.

This 3-Year Limited Warranty SHALL NOT APPLY TO: (See Warranty Procedure Manual for details.)

1. Ground Engaging Tools.
2. Vendor Warranty Only Parts.

WARRANTY LABOR:

1. Considered during the first year of warranty only.
2. During the second and third year:
 - Warranty labor is not covered. Customer is responsible for removing, replacing and returning the defective part(s) to the Landoll Dealer

THIS WARRANTY IS EXPRESSIVELY IN LIEU OF ALL OTHER WARRANTIES OF MATERIAL, WORKMANSHIP DESIGN, APPLICATION OR OTHERWISE WITH RESPECT TO ANY EQUIPMENT, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND LANDOLL COMPANY, LLC SHALL NOT BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND ON ACCOUNT OF ANY LANDOLL PRODUCT. NO EMPLOYEE OR REPRESENTATIVE IS AUTHORIZED TO CHANGE THIS WARRANTY, VERBALLY OR IN WRITING, OR GRANT ANY OTHER WARRANTY. LANDOLL COMPANY, LLC, WHOSE POLICY IS ONE OF CONTINUOUS IMPROVEMENT, RESERVES THE RIGHT TO MAKE CHANGES WITHOUT OBLIGATION TO MODIFY PREVIOUSLY PRODUCED EQUIPMENT.

This warranty does not expand, enlarge upon or alter in any way, the warranties provided by the original manufacturers and suppliers of component parts and accessories. This warranty excludes such parts or accessories which are not defective, but may wear out and have to be replaced during the warranty period, including, but not limited to, light bulbs, paint, and the like. (Tire Warranties are expressly excluded from Landoll Company, LLC warranty herein.) Purchaser is expected to pay all repairs or replacement costs, in connection with this Agreement, including sales and other taxes immediately upon completion of work performed.

LIMITATION OF LIABILITY: Landoll Company, LLC shall not be liable to purchaser for any incidental or consequential damages suffered by the purchaser, including, but not limited to, any commercially reasonable charges, expenses or commissions incurred in connection with effecting cover or any other reasonable expense incident to the delay or other breach of warranty by Landoll Company, LLC, loss of anticipated profits, transportation expenses due to repairs, non-operation or increased expense of operation costs of purchased or replaced equipment, claim of customers, cost of money, any loss of use of capital or revenue, equipment rental, service trips, or for any special damage or loss of any nature arising at any time or from any cause whatsoever. **LIMITATION OF REMEDY:** In the event of Landoll Company, LLC failure to repair the product subject to the warranty contained herein, the purchaser's sole and exclusive remedy against Landoll Company, LLC shall be for the repair or replacement of any defective part or parts of the product subject to work or repair within the time period and manner set forth herein. This exclusive remedy shall not be deemed to have failed of its essential purpose so long as Landoll Company, LLC is willing and able to repair or replace defective parts in the prescribed manner.

Figure 6-2: Landoll Tillage Product Warranty (2 of 2)

Instructions for Ordering Parts

**** Repair parts must be ordered through an Authorized Dealer ****

DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

Phone: 800-423-4320 or 785-562-5381

Fax: 888-527-3909

Order online: dealer.landoll.com

DATA PLATE

The Data Plate, which lists the model number and serial number, is located on the front of the frame.

SERIAL NUMBER

The following information will help decode the serial number.

25C2400100 = xxmysssss

xx	= model series (i.e. "25" for all In-Line Rippers)
m	= month of manufacture (ex. "C" means March. The letter I is not used.)
yy	= year manufactured (ex. "24" means 2024)
sssss	= sequential number used to track warranty and service information.

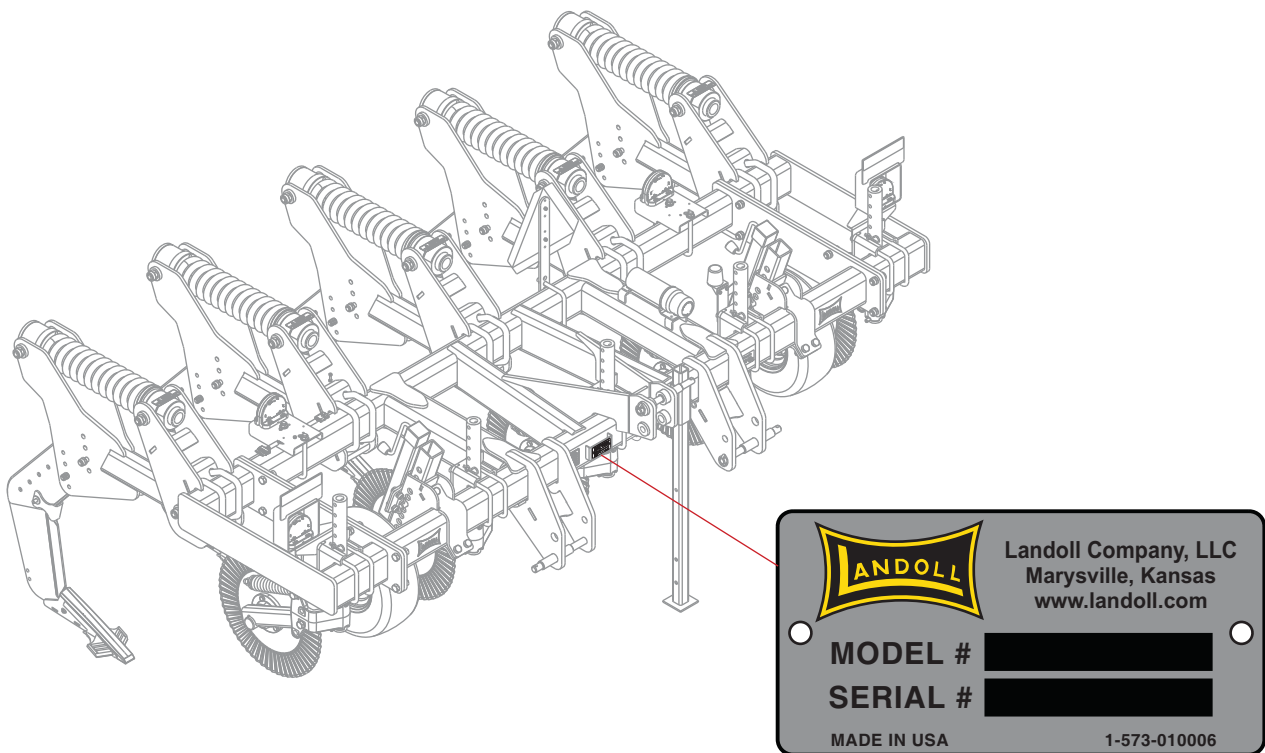


Figure: Data Plate and Location

Manuals for 2511N In-Line Ripper - 3, 4, 5 Shanks

Manual Number	Manual Type
F-1169	Operator's Manual
F-1168	Parts Manual

Document Control Revision Log:

Date	Form #	Improvement(s): Description and Comments
09/2024	F-1169-2409	Initial Release - Manual for 2511N Narrow Models Only - 3, 4, 5 Shanks Rebranding from "In-Row" to "In-Line" Ripper Torque Charts (Revised 11/04/2024)



Equipment from Landoll Company, LLC is built to
exact standards ensured by ISO 9001:2015
registration at all Landoll manufacturing facilities.

2511N

In-Line Ripper

Models: 3, 4, 5 Shanks

Operator's Manual

FOR MODELS BEFORE 04/15/2024
SEE F-1010 RIGID & FOLDING IN-ROW RIPPER

Re-Order Part Number F-1169

LANDOLL COMPANY, LLC

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