



# Cold Planer 18 & 24

For

# Skid Steer Loaders

**Operator's Manual  
Maintenance  
Parts Information**



**Read the Manual Before Use**

**WARNING** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead based paints,
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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## **REFERENCE INFORMATION**

**Write the serial number for your attachment in the spaces below. Always refer to this serial number when calling for service or parts.**

Serial Number.....\_\_\_\_\_

## **YOUR ATTACHMENTS DEALER**

\_\_\_\_\_  
**ADDRESS:**

\_\_\_\_\_  
**PHONE:**

\_\_\_\_\_  
**CONTACT:**

\_\_\_\_\_

**NOTE:** *Erskine Attachments LLC reserves the right to make improvements in design or changes in specifications at any time without notice and without incurring any obligations to install them on units previously sold.*

**DO NOT use or perform maintenance on this machine until this manual has been read and understood. In addition, read the Operation and Maintenance Manual(s) pertaining to the attachment and the attachment carrier (“Loader”).**

The user is responsible for inspecting the machine daily, and for having parts repaired or replaced when continued use of the machine would cause damage, excessive wear to other parts or make the machine unsafe for continued operation.

If an operating procedure, tool device, maintenance or work method not specifically recommended is used, you must satisfy yourself that it is safe for you and others. You must also ensure that the attachment will not be damaged or made unsafe by the procedures you choose.

Erskine Attachments LLC cannot anticipate every possible circumstance that might involve potential hazard. The safety messages found in this manual and on the machine are therefore not all inclusive.

The signal words **CAUTION**, **WARNING**, or **DANGER** are used to indicate hazards.

**⚠ CAUTION** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

**⚠ WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**⚠ DANGER** Indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury.

The word **IMPORTANT**, is used in the text when immediate damage will occur due to improper technique or operation.

The word **NOTE** is used to convey information that is out of context with the manual text; special information such as specifications, techniques, reference information, and other information of a supplementary nature.

# SAFETY

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## Improper operation can cause serious injury or death.

### Pre-operation

- This attachment is designed to be used for both asphalt and concrete milling operations. **NEVER** use this machine for any other purpose.
- Read the operators manual for the “Skid Steer Loader.” **NEVER** allow untrained people to operate.
- Operating instructions must be given to everyone before operating this attachment and at least once a year thereafter in accordance with OSHA regulations.
- **NEVER** exceed the maximum recommended input power or speed specifications for the attachment. Over-powering or over-speeding the attachment may cause personal injury and/or machine damage.
- Keep all shields, guards, and covers in place.
- Do not modify equipment or add attachments that are not approved by Erskine Attachments LLC.
- Use adequate safety warning lights and devices as required by local regulations. Obey all local laws and regulations regarding machine operation on public property.

### Operation

- Always wear eye protection that meets z87.1 or use with a loader enclosure that provides similar protection.
- Hydraulic connections may be hot after use. Use gloves if connecting or disconnecting after use.
- Check and be sure all operating controls are in neutral before starting the engine.
- Milling concrete and asphalt can release dust containing silica. According to OSHA, exposure to silica can result in respiratory diseases (affecting your ability to breath), including silicosis, lung cancer, and kidney disease. Refer to OSHA for more information about controlling exposure to silica. Occupational use of this attachment may be subject to OSHA regulations specific to respirable silica.

### Operation (continued)

- Keep people away from loader, attachment and discharge when in use. This attachment sends objects flying and has rotating parts. **NEVER** direct discharge toward people – rocks and debris can be thrown.
- **NEVER** operate near embankments or terrain that is so steep that rollover could occur.
- Always stay in the operator position when using the attachment.
- Before leaving the operators position, disengage hydraulic drive, lower the attachment to rest flat on the ground, stop engine, set park brake, and wait for all motion to stop.
- **NEVER** place hands in the discharge area or clear debris while the engine is running.

### Avoid High Pressure Fluids Hazard



- Escaping fluid under pressure can penetrate the skin causing serious injury.
- Avoid the hazard by relieving the pressure before disconnecting hydraulic lines.
- Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks. Wear protective gloves and safety glasses or goggles when servicing or performing maintenance on hydraulic systems.
- If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.

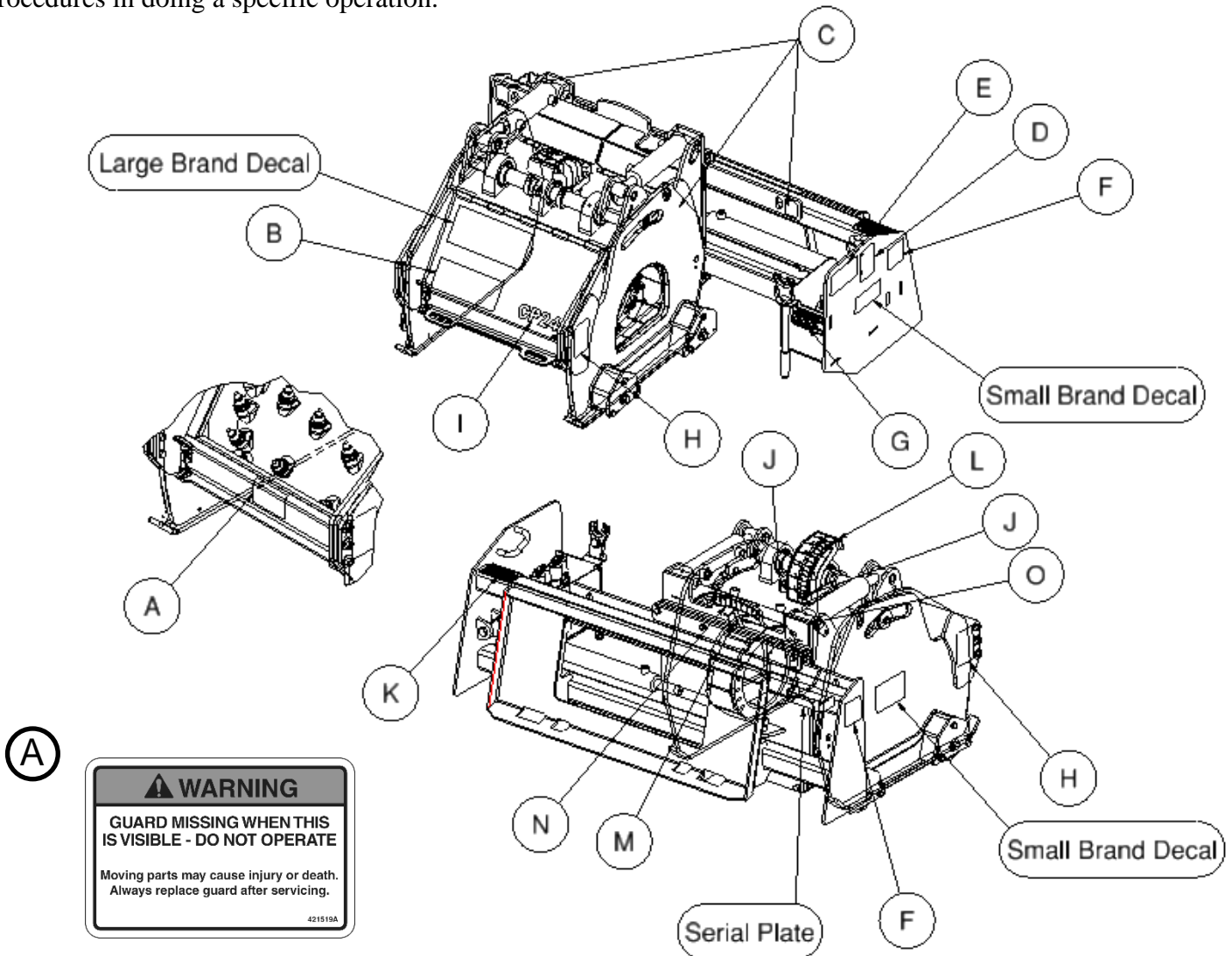
### Maintenance

- **NEVER** make adjustments, lubricate, clean, or perform any service on the machine while it is in operation.
- Make sure the attachment is serviced on a daily basis. Improper maintenance can cause serious injury or death in addition to damage to the attachment and/or your equipment.

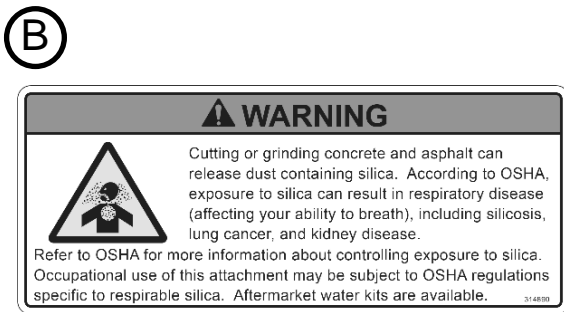
# SERIAL NUMBER AND SAFETY DECAL LOCATIONS

## Serial Number Location:

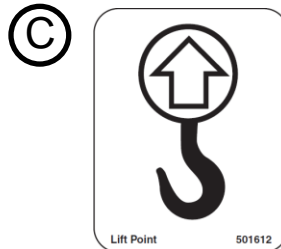
It is important to refer to the serial number of the attachment when making repairs or ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use different procedures in doing a specific operation.



**Part Number: 421519**  
**Location:** Under front shield  
**Quantity: 1**



**Part Number: 314890**  
**Location:** On left endplate  
**Quantity: 1**



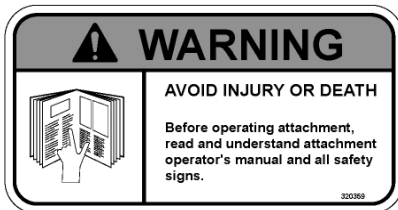
**Part Number: 501612**  
**Location:** On end plates and frame LH & RH  
**Quantity: 4**



**Part Number: 200001**  
**Location:** On left endplate of frame near valve  
**Quantity: 1**

# SERIAL NUMBER AND SAFETY DECAL LOCATIONS

**E**



**Part number: 320359**  
**Location:** On LH endplate of frame near front  
**Quantity: 1**

**F**



**Part Number: 320025**  
**Location:** On endplates of frame near rear  
**Quantity: 2**

**G**



**Part Number: 319439**  
**Location:** On valve block shield  
**Quantity: 1**

**H**



**Part number: 203234**  
**Location:** On each side of cutter frame  
**Quantity: 2**

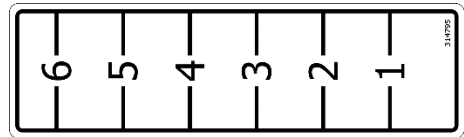
**I**

**Part Number: Model Decal 314877 (CP24) or 314878 (CP18)**  
**Location:** On front shield  
**Quantity: 1**

**J**

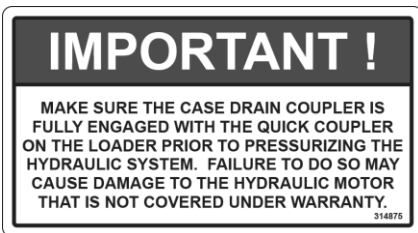
**Part Number: 314493 (RED DEPTH)**  
**Location:** On each gauge pointer  
**Quantity: 2**

**L**



**Part Number: 314795**  
**Location:** Top mid curved depth bracket  
**Quantity: 1**

**K**



**Part Number: 314875**  
**Location:** Top LH tube of Frame  
**Quantity: 1**

**O**



**Part Number: 313391**  
**Location:** RH rear of Cutter frame  
**Quantity: 1**

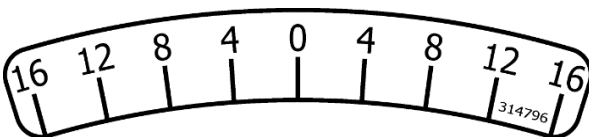
**M**

**Part Number: 314492 (RED ANGLE)**  
**Location:** On pivot w/a below depth gauge  
**Quantity: 1**

**Large Brand Decal**  
**Location:** On front of cutter shield  
**Quantity: 1**

**Small Brand Decal**  
**Location:** On endplate near valve and on right depth shoe  
**Quantity: 2**

**N**



**Part Number: 314796**  
**Location:** On back of main body weldment  
**Quantity: 1**

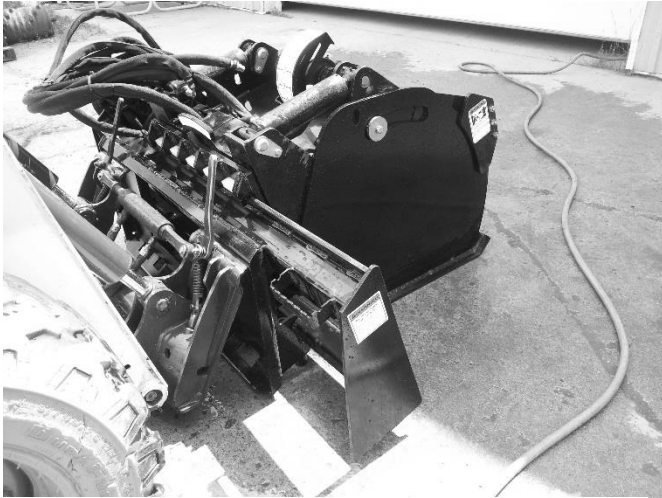
**Safety Decals Locations:**  
 The locations of the safety decals are shown. If these decals are missing, damaged, or painted over they must be replaced. Call Erskine Attachments LLC (218-435-4045) for replacement decals.

# **MOUNTING INSTRUCTIONS**

After uncrating the attachment, use the following procedure to mount the Cold Planer to the loader.



**WARNING!** Coupler wedges or pins must extend through the holes in the attachment mounting plate. Levers must be fully down and locked. Failure to secure wedges or pins can allow attachment to come off and cause injury or death.



***Mounting Plate Connections***



***Hydraulic Connections***

1. Use the steps, treads, and grab handles to get on and off the loader and attachment.
2. Sitting in the operator's seat, lower seat bar and fasten the seat belt.
3. Drive the loader to the rear of the attachment. Put the loader quick attach coupler into the attachment mounting bracket.
4. Tilt the loader coupler backward a small amount until it is fully engaged in the attachment mounting bracket.
5. Stop the engine and engage the park brake.
6. Secure the coupler locking mechanism that attaches the attachment to the loader.

## **MOUNTING INSTRUCTIONS**

7. Connect the hydraulic quick couplers from the attachment to the loader.

**IMPORTANT:** Make sure the quick couplers are fully engaged. If the quick couplers do not fully engage, check to see that the couplers are the same size and brand. Do not force the quick couplers together.

**IMPORTANT:** Wipe the ends of the hydraulic quick couplers (both lead and loader) with a rag to remove any possible contamination. Contamination can cause hydraulic components to fail and is not covered under warranty.

**NOTE:** See the Loader's Operation and Maintenance Manual.

**NOTE:** Attachment is shipped with 12FJX (1-1/16" Female JIC Swivel) fittings on the ends of the lead hoses

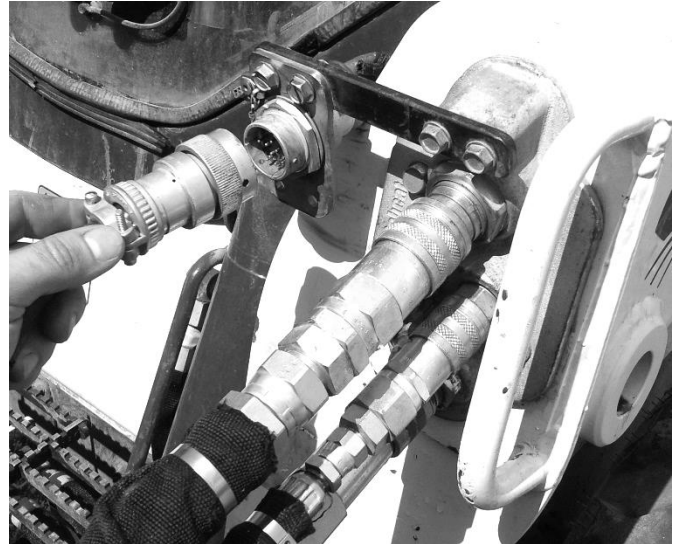
8. Connect the wire harness to the loader's wire harness receptacle. (Disregard if a pistol grip controller is supplied with the attachment.)

Make sure the hoses are properly routed to fit your specific loader. If the hoses are not routed correctly, hoses may get pinched or rub on tires. Be sure to check the hose routing through the full range of intended motion of the attachment before operating it.

More than one routing may be acceptable depending on the loader. Pick the routing that best suits your loader.

**IMPORTANT:** Proper hose routing is the responsibility of the owner and/or operator. Pinched or stretched hoses are not covered under warranty.

Mounting is now complete and you are ready to use the attachment. Use the above instructions in a reverse order to dismount the attachment from the loader.



***14 Pin Wire Harness Connection***



***CP24 Ready for Operation***



## Operation

1. With the operator in the seat of the loader, the seat belt fastened and the seat bar lowered (if so equipped), start the engine.
2. Activate the high flow auxiliary hydraulic system to start the drum rotation, and then making sure to increase the loader engine to full throttle.

**IMPORTANT:** Engine must be at idle speed when engaging auxiliary hydraulic system.

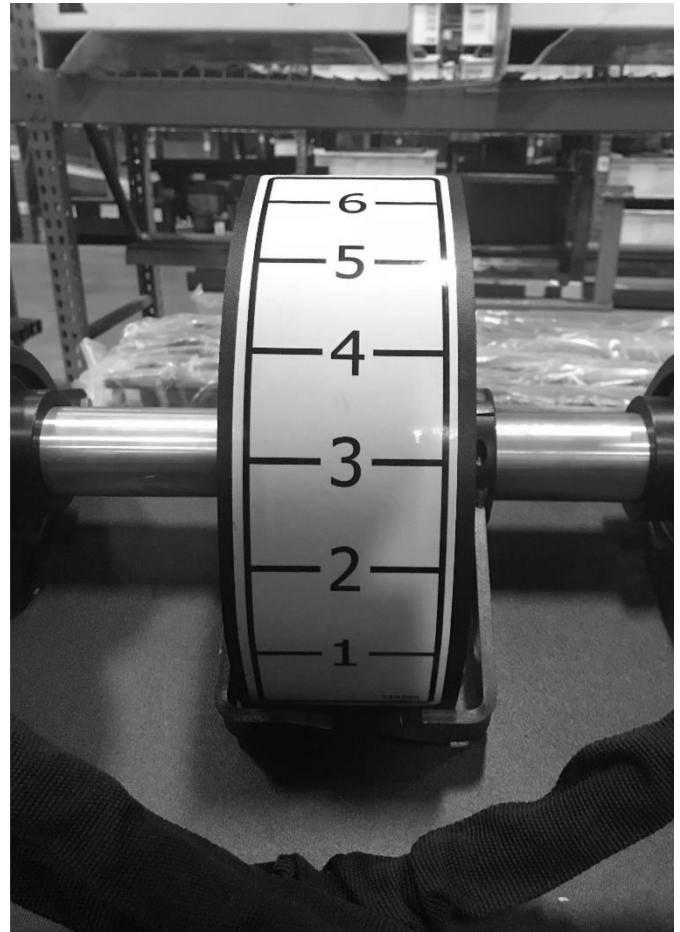
**NOTE:** Certain loaders may not operate in high flow mode without a special wire harnesses. Others require the control switches to be operated in a specific way. It may also be necessary to switch the hose couplers around to match your loader. (See the loader's operation and maintenance manual)

3. With the loader boom lowered completely and the auxiliary hydraulics engaged, slowly rotate the loader coupler forward until the attachment skid shoes are in contact with the ground.
4. Before advancing with the loader, slowly raise the left and right skid shoes until the desired depth of cut is achieved. (Up to 6" for most models)

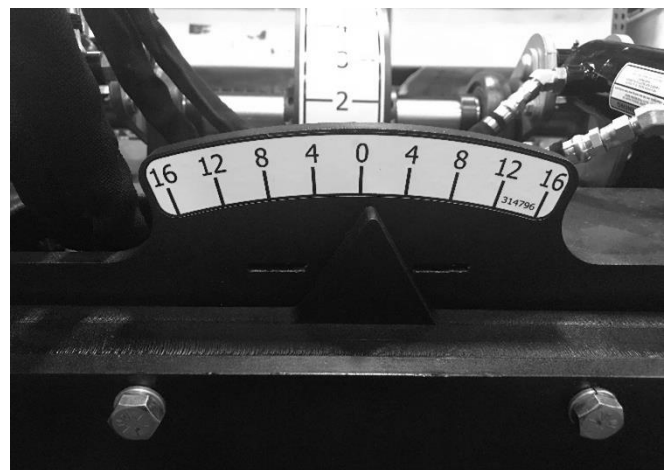
**NOTE:** For optimal performance, the majority of the weight of the front of the skid steer should be placed upon the planer with the loader arms fully lowered. The transfer of skid steer weight to the attachment will result in a smoother and faster milling operation. The loader arms should never be placed in the float condition: excessive vibration will result.

**NOTE:** In some cases the drum rotation may stall when the load on the planer is too high. This is most likely the result of excessive ground speed. The hydraulic reliefs on board the loader are designed to prevent damage to the hydraulic system by diverting all flow from the planer motor. If this occurs, stop or slightly reverse the forward progress of the skid steer and allow the drum to return to full operating speed before continuing.

**NOTE:** Be aware that the wheel motor will lose power while the other auxiliary functions are in operation.



***Depth of Cut Indicator***



***Cutting Head Rotate Indicator***

# OPERATING INSTRUCTIONS

## Cutting Head Rotation and Side Shift Operation

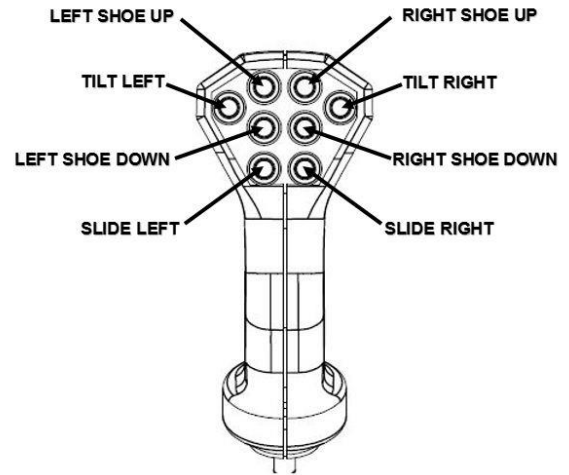
1. Roll the skid steer arms fully back and raise the planer 12 to 15 inches off the ground.

**IMPORTANT:** Planer must be raised above the ground while operating the side shift and head oscillation adjustment features.

2. Activate the auxiliary hydraulic system in reverse flow to operate the functions.

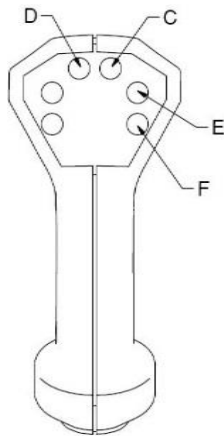
**NOTE:** The planer head is designed not to rotate when the oil flow is activated in the reverse direction, although a small amount of rotation may be seen with some loaders.

3. Proceed to use the left or right side shift control on the pistol grip harness as specified in the manual. If these functions are controlled by the loader, see the skid steer specific control instructions.



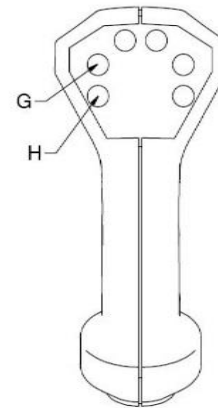
**Pistol Grip Harness Control**

## Skid Loader Cab Controls



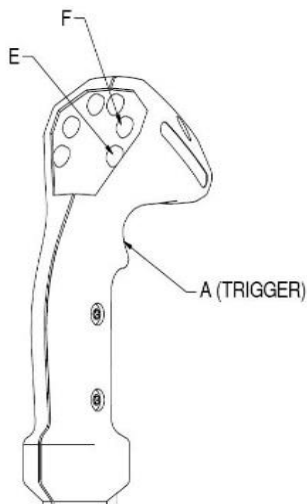
LH JOYSTICK

4-FUNCTION CONTROLS	
BUTTONS	FUNCTION
C	LEFT SHOE UP
D	LEFT SHOE DOWN
E	RIGHT SHOE UP
F	RIGHT SHOE DOWN
H + C	SIDE SHIFT RIGHT
H + D	SIDE SHIFT LEFT
H + E	ROTATE LEFT
H + F	ROTATE RIGHT



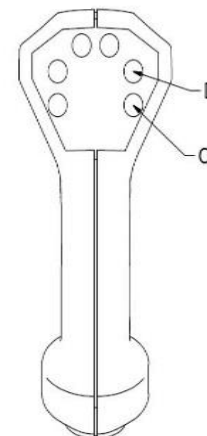
RH JOYSTICK

## CAT D Cab Controls



LH JOYSTICK

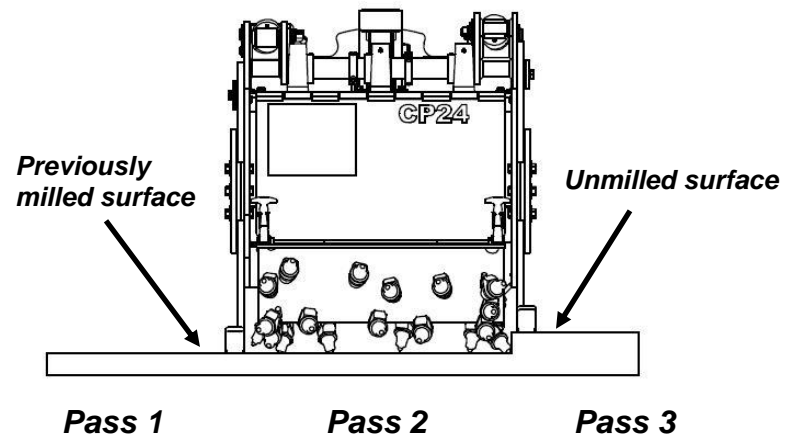
4-FUNCTION CONTROLS	
BUTTONS	FUNCTION
C	SIDE SHIFT RIGHT
D	SIDE SHIFT LEFT
A + C	ROTATE RIGHT
A + D	ROTATE LEFT
E + C	RIGHT SHOE DOWN
E + D	RIGHT SHOE UP
F + C	LEFT SHOE DOWN
F + D	LEFT SHOE UP



RH JOYSTICK

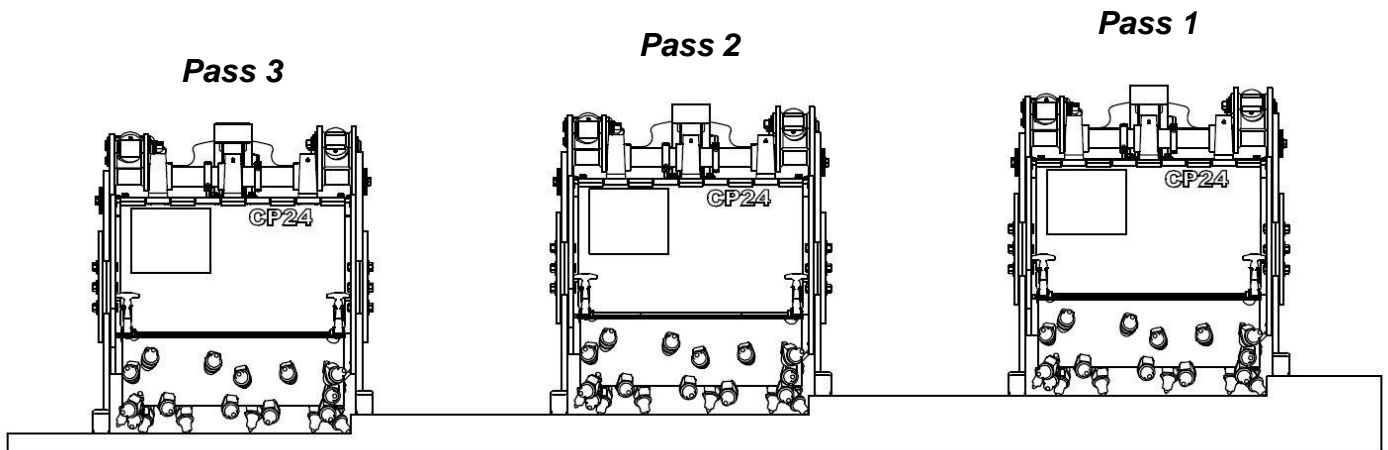
## Large Area Single Pass Milling

The independently controlled skid shoes allow for continuous milling at a consistent depth across large areas. This is achieved by setting the desired depth of cut for the skid shoe on the unmilled side of the planer and setting the other skid shoe down so that it will cut flush with the previously milled surface. The skid shoe that is on the previously milled surface can be used as a physical guide for the planer and slid alongside the edge of the pavement that is currently being milled by the planer.



## Large Area Multi-Pass Milling

Multiple passes can be used to remove material down to depths greater than the Planer's single pass capabilities. This is done by milling the entire surface, removing all the spoil, and then returning to mill the entire surface again and so on until the required depth is achieved.

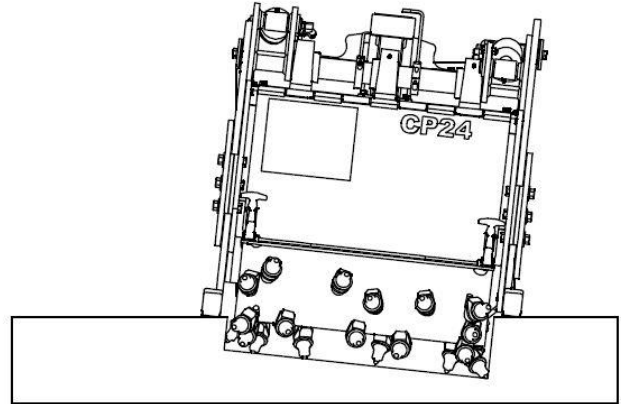


**NOTE:** Spoil should be removed from the surface prior to attempting each additional pass.

# OPERATING INSTRUCTIONS

## Taper Cuts

The independently controlled skid shoes and rotating head allow for tapered cuts along the perimeter of any paved surface. This works well for patching old pavement, or joining new paved surfaces together by creating a smooth transition between the surfaces being joined. The suggested method is to plunge the planer head down to the deepest part of the taper for the first pass, then proceed either direction from the first pass until the desired profile is achieved.

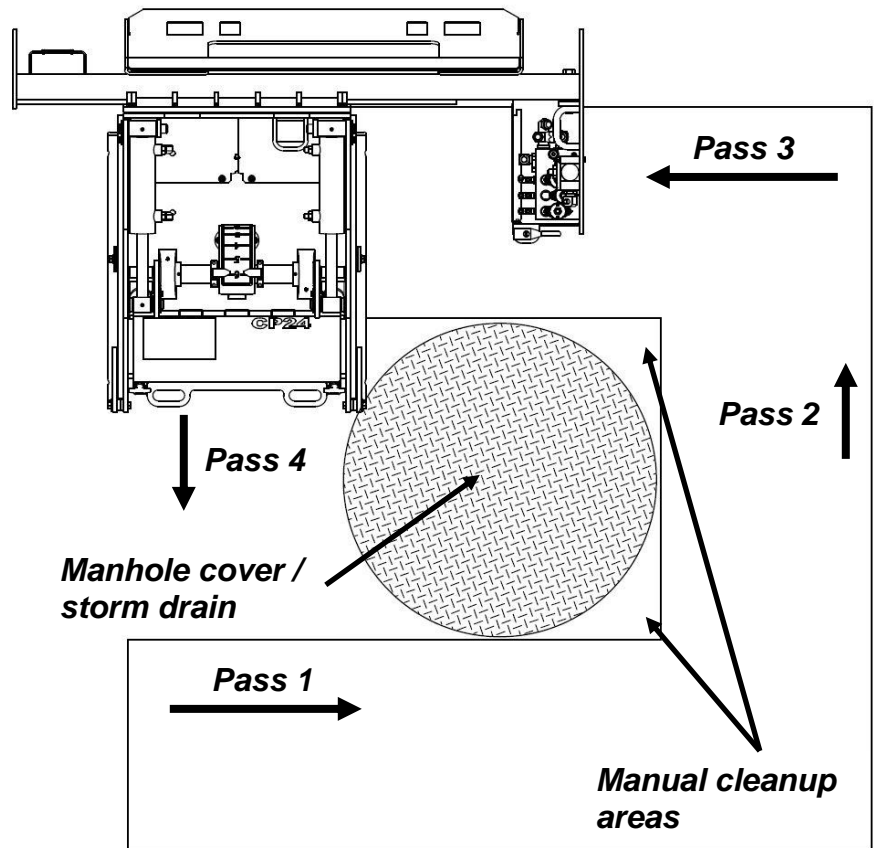


## Milling Around Foreign Objects

The side shift feature gives the operator a clear line of sight down alongside the planer head which allows milling to be achieved up close to objects that cannot otherwise be milled. The suggested method is to mill a minimum of four passes around the object and then manually clean up the areas that weren't able to be milled.

The side shift feature can also be used to mill up next to curbs. This can be accomplished by removing the right skid shoe and side shifting the planer head completely to the right side. (See page 17 for skid shoe removal.)

**IMPORTANT:** Make sure the operator has a clear line of sight alongside the planer head so that damage will not occur to the planer or manhole cover / storm drain.





**WARNING!** Lower the attachment to rest, shut down the engine, relieve the hydraulic pressure to the attachment, wait for all motion to stop, and set park brake before leaving the operator's seat to perform service of any kind. If servicing attachment while attached to a skid loader, make sure that the hydraulic couplers are disconnected.

It is the operator's responsibility to make daily inspections of the loader and attachment for damage, loose bolts, fluid leaks, or anything else that could cause a potential service or safety problem. Preventive maintenance is the easiest and least expensive type of maintenance.

**IMPORTANT:** Bolts and set screws can loosen after initial usage. After the first hour of operation check all bolts and set screws.

**IMPORTANT:** Fluids such as engine oil, gear lube, and hydraulic fluid must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks be cleaned in a specific manner. Check local, state, and federal regulations for the correct disposal.

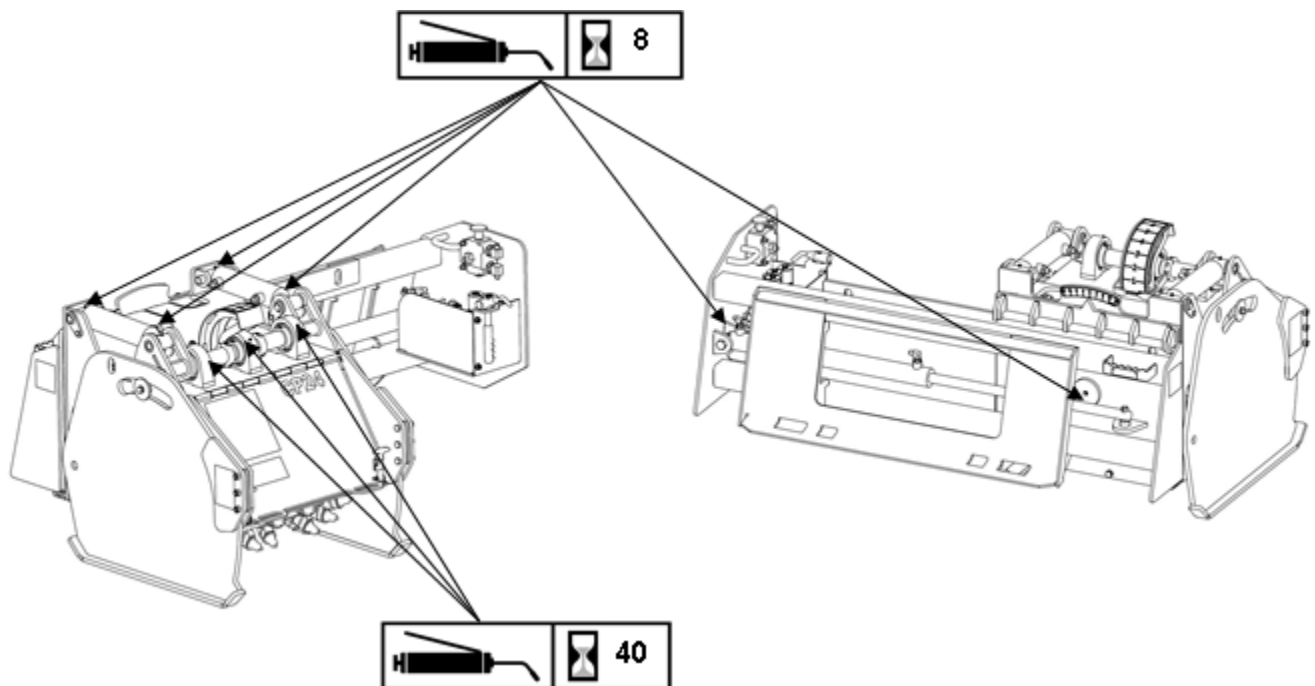
## DAILY INSPECTION

Follow the cold planer service schedule for routine maintenance.



Check the following items every **8 hours** of operation:

1. Check teeth and holders for cracks or excessive damage. Replace if necessary.
2. Check entire attachment for weld cracks or excessive damage. Repair if necessary.
3. Check all hardware. Retighten if necessary.
4. Check shields. Repair if damaged or replace if necessary.
5. Check for damaged or missing decals. Replace if missing.
6. Check for damaged or leaking hydraulic hoses or fittings. Replace if necessary.
7. Lubricate all pivot points.
8. Spray the drum with diesel fuel to allow the teeth to rotate freely in the holders.
9. Grease the three main bearings. No more than 2 pumps of grease every 40 hours.

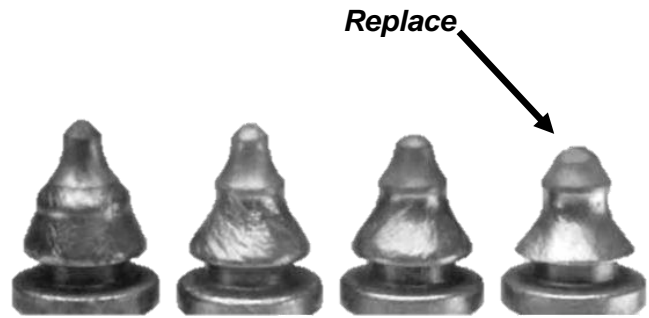


# ROUTINE MAINTENANCE

## Pick Inspection, Setup, Removal, & Installation

### Inspection:

The factory installed carbide picks are specifically designed to be a wear product. The life expectancy of the picks will depend greatly on the hardness, the abrasiveness, and the thickness of the material being cut. It is also very critical that the picks rotate freely in the holders to maintain even and consistent wear throughout the life of the picks. A normal pick wear progression is depicted to the right. The pick seen furthest to the right is an example of one that should be replaced, with the carbide almost gone and the body is nearly worn to the base.



*Pick Wear Progression*

**IMPORTANT:** Continued use of the picks beyond this point will have adverse effects, such as poor productivity, possible cutter head failure, and other costly repairs.

**NOTE:** Examples of abnormal pick wear causes and solutions are on page 23.

**NOTE:** See the parts explosion on page 17 for replacement pick packages and part numbers.

### Cold Planer Tooth Replacement

**⚠ WARNING** Always wear safety glasses when performing this operation. Hardened tools can shatter causing injury.

1. Open the front cover to allow free access to the cold planer drum.
2. Make sure the cold planer cutter head is positioned in such a way that the drum is allowed to rotate freely.
3. The tooth removal tool included with the planer should be used to remove the teeth from their holders.
4. To remove a tooth, place the fork end of the tool into the groove in the tooth and strike raised area on the tool with a hammer until the tooth is removed.
5. To install a new tooth, place the fork end of the tool into the groove in the tooth and set the shank end of the tooth over the hole in the tooth holder.
6. Then strike the raised area on the tool with a hammer until the tooth is fully seated into the tooth holder.

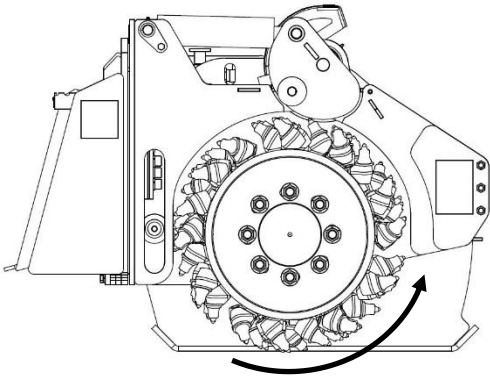
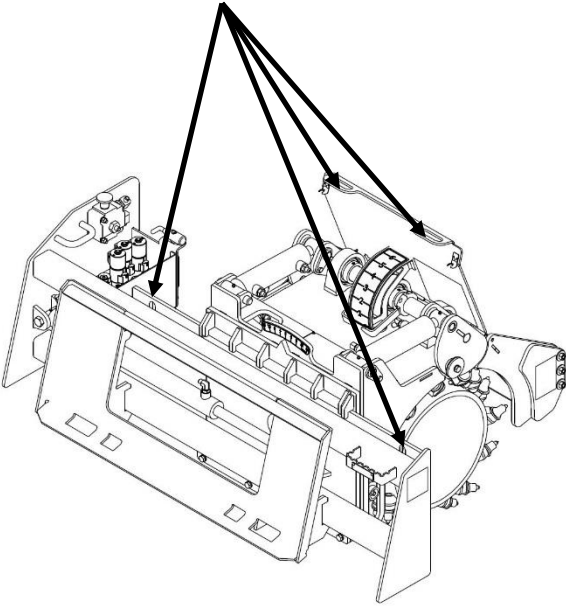


*Old Tooth Removal*



*New Tooth Installation*

### *Recommended Lift Points for Drum Removal*



***Drum Rotation Direction***

### **Cold Planer Drum Replacement**

1. Position the cold planer in a location that will allow the use of a hoist to lift the planer off the drum.
2. Remove the right side skid shoe (11) first, by removing the two large retaining washers (25) and then the guide plate (16). See page 19.
3. Remove the eight M20 hex flange nuts that secure the drum to the wheel motor.
4. The drum should slide away from the motor easily with the use of a pry bar. Watch the teeth for any clearance issues when sliding out the drum.
5. Lift the planer off the old drum using the recommended lift points.
6. Hoist the planer down on top of the new drum and reinstall the parts and hardware in a reverse order.

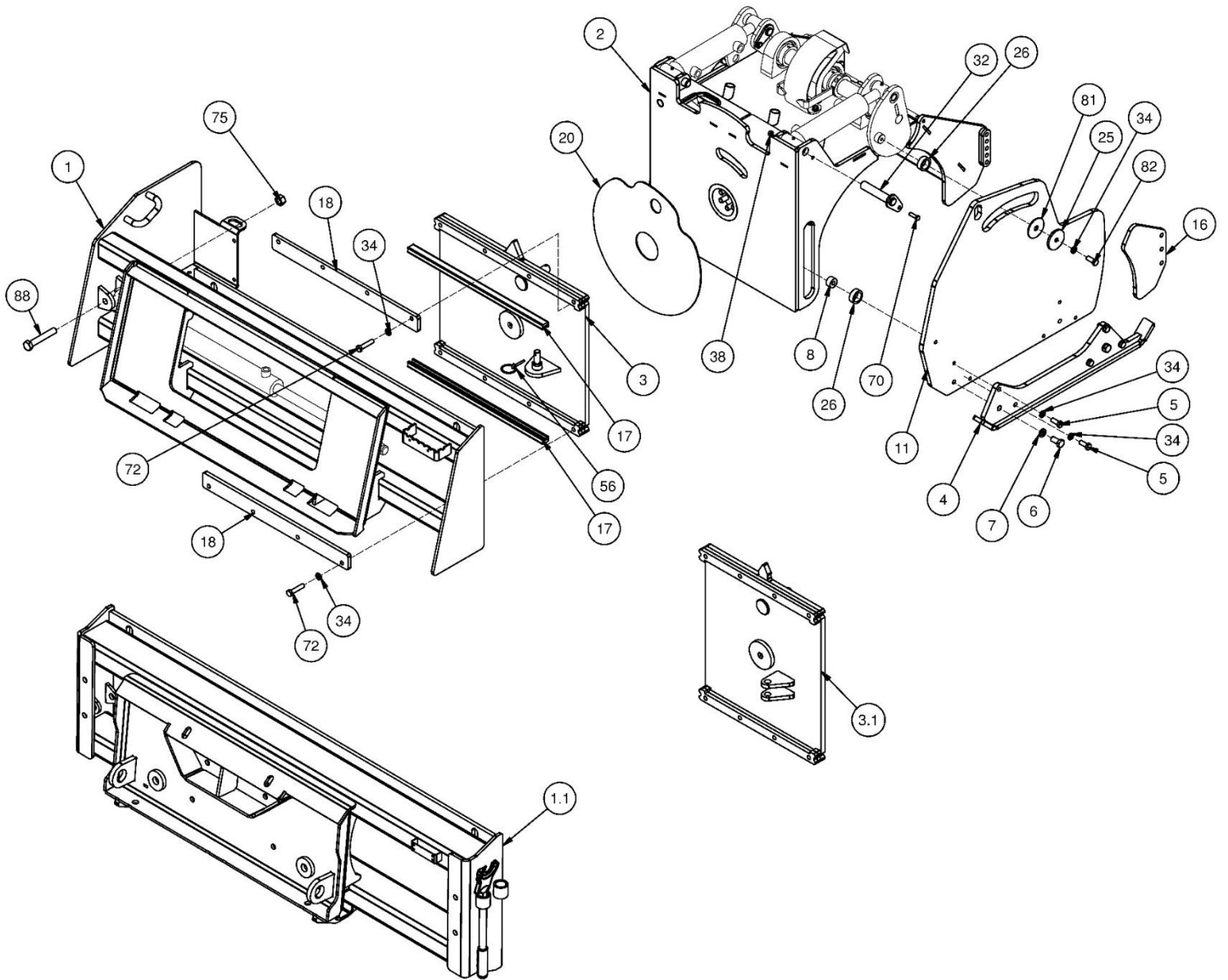
**IMPORTANT:** Make sure the drum is oriented in the proper direction when installing. The proper orientation is as follows. When facing the hub side of the motor, rotation will be in a CCW direction. Therefore the teeth on the drum should also be pointing in a CCW direction. See image to the left for verification.

## PARTS INFORMATION

ITEM	QTY	PART NO.	DESCRIPTION	STOCK NO.
1	1	314700	MOUNT FRAME CP W/A	
1.1	1	319500	MOUNT FRAME CP MULTIHOOG W/A	MULTIHOOG MOUNT ONLY
2	1	314701	BODY MAIN 24 W/A	
	1	314838	BODY MAIN 18 W/A	
3	1	314702	PIVOT 24 COLD PLANER W/A	
	1	314839	PIVOT 18 COLD PLANER W/A	
3.1	1	319501	PIVOT MOUNT CP MULTIHOOG 18 W/A	MULTIHOOG MOUNT ONLY
	1	501502	PIVOT MOUNT CP MULTIHOOG 24 W/A	MULTIHOOG MOUNT ONLY
4	2	314405	SKID SHOE CP W/A	
5	10	13207	BOLT HEX	1/2 X 1-1/4 NC GR 5
6	4	15307	BOLT HEX	5/8 X 1-1/4 NC GR 8 YZ
7	4	33630	WASHER LOCK	5/8"
8	2	314449	BUSH 1.25 X .53 X .70	
11	1	319504	PLATE SKID SHOE RH CP PAINTED	
		314706	SKID SHOE RH W/A	<b>OBSELETE</b>
16	2	314777	PLATE GUIDE PAINTED	
17	2	314808	PLASTIC U-CHANNEL 24	
	2	314861	PLASTIC U-CHANNEL 18	
18	1	314779	BACKING PLATE 26 PAINTED	
	1	314860	BACKING PLATE 20 PAINTED	
20	1	314810	PLASTIC ROTATION DISK	
25	4	314656	WASHER .53ID X 2.75OD X .25 Z	
26	4	318058	BUSHING 1.75 x 1.27 x .63	<b>(USE ANTI-SIEZE)</b>
32	2	316026	PIN 1 X 5 W/A	
34	18	33626	WASHER LOCK 1/2	
38	4	37212	NUT REV LOCK	3/8 NC
56	2	315308	PIN LYNCH 1/4	
70	5	13107	BOLT HEX	3/8 X 1-1/4 NC GR 5
72	10	13212	BOLT HEX <b>(USE LOCK TITE)</b>	1/2 X 2-1/4 NC GR 5
75	1	37217	NUT REV LOCK	3/4 NC
81	2	314894	WASHER PLASTIC .53 X 2.75	
82	2	13207	BOLT HEX <b>(USE LOCK TITE)</b>	1/2 x 1-1/4 NC GR 5
88	1	13371	BOLT HEX	3/4 X 4-1/2 NC GR 5



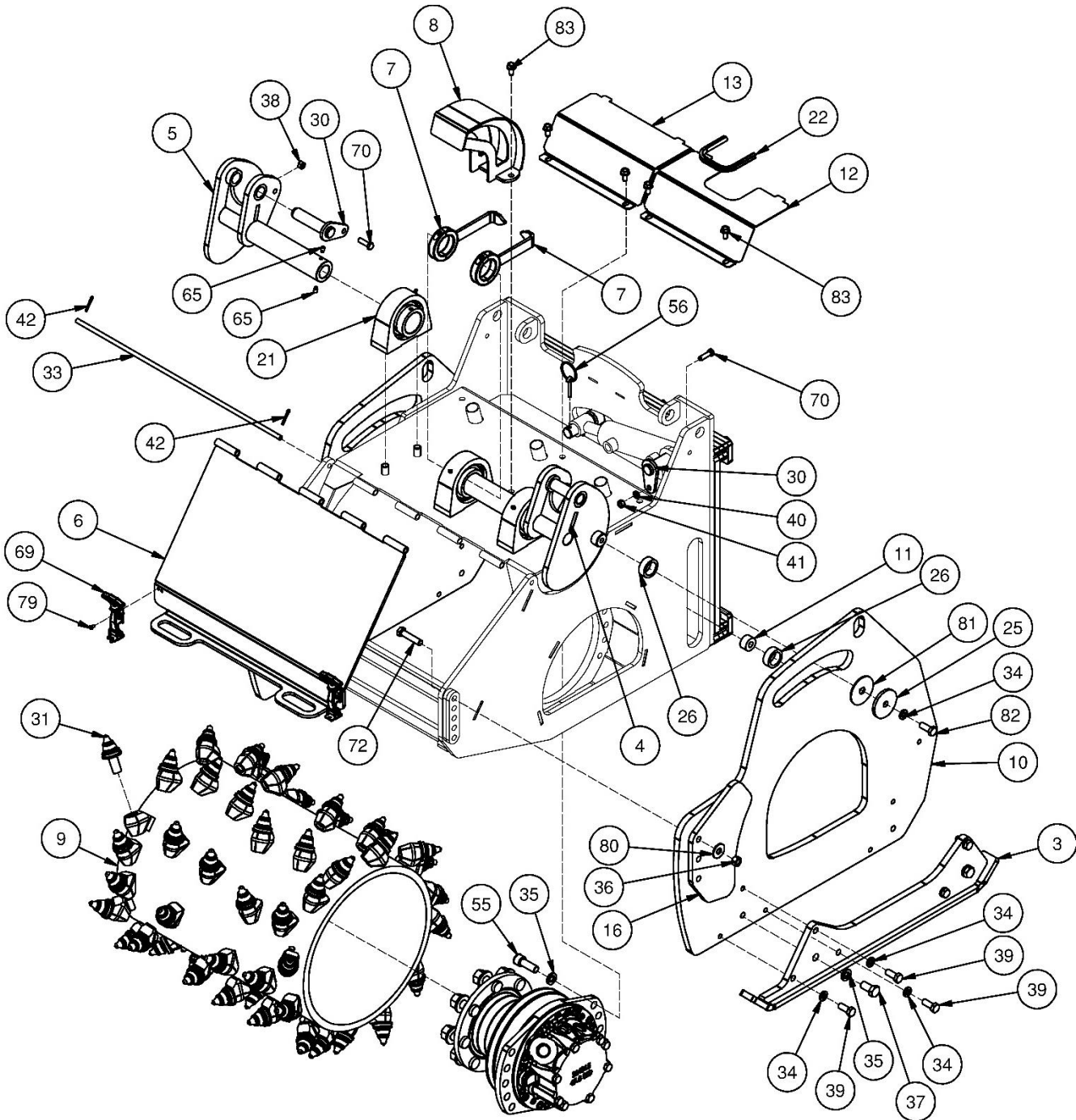
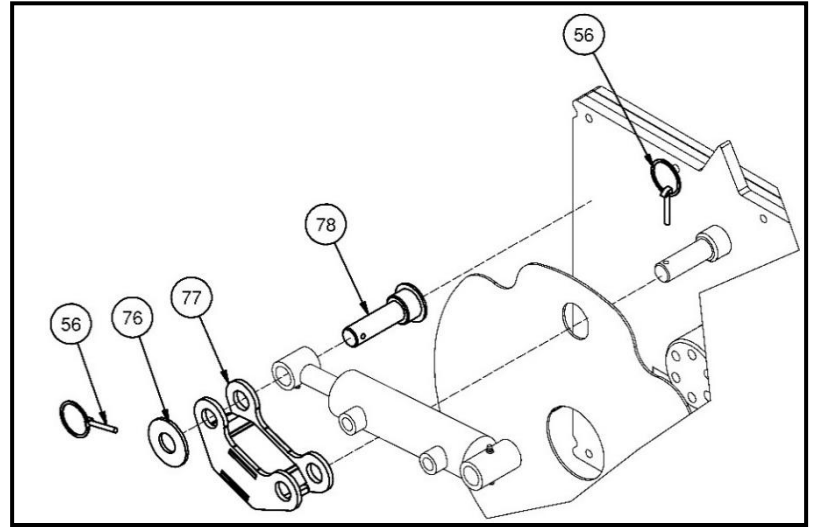
# PARTS INFORMATION



## 18 & 24 COLD PLANER PARTS INFORMATION

ITEM	QTY	PART NO.	DESCRIPTION	STOCK NO.
3	2	314405	SKID SHOE CP W/A	
4	1	314703	LIFT ARM 24 LH W/A	
	1	314841	LIFT ARM 18 LH W/A	
5	1	314704	LIFT ARM 24 RH W/A	
	1	314842	LIFT ARM 18 RH W/A	
6	1	314707	COVER FRONT 24 W/A	
	1	314843	COVER FRONT 18 W/A	
7	2	314709	DEPTH GAUGE POINTER W/A	
8	1	314708	DEPTH GAUGE W/A	
9	1	314710	DRUM 24 COLD PLANER W/A	
	1	314840	DRUM 18 COLD PLANER W/A	
10	1	319503	PLATE SKID SHOE LH CP PAINTED	
	1	314705	SKID SHOE LH W/A	<b>OBSOLETE</b>
11	2	314449	BUSH 1.25 X .53 X .70	
12	1	314786	SHIELD CYLINDER 24 LT PAINTED	(314797 UNPAINTED)
	1	314865	SHIELD CYLINDER 18 LT PAINTED	(314864 UNPAINTED)
13	1	314787	SHIELD CYLINDER 24 RT PAINTED	(314798 UNPAINTED)
	1	314867	SHIELD CYLINDER 18 RT PAINTED	(314866 UNPAINTED)
16	2	314777	PLATE GUIDE PAINTED	(314761 UNPAINTED)
21	3	314817	BRG 2 PLW BLK	
22	1	314812	TRIM HOLE COLD PLANER	
25	4	314656	WASHER .53ID X 2.75OD X .25 Z	
26	4	318058	BUSHING 1.75 x 1.27 x .63	
30	3	400041	PIN 1 X 4 W/A	
31	48	314830	TOOTH BULLET CP/RS CONCRETE	<b>18" COLD PLANER</b>
	60	314830	TOOTH BULLET CP/RS CONCRETE	<b>24" COLD PLANER</b>
33	1	314741	ROD HINGE PIN .38 X 25.5 Z	<b>24" COLD PLANER</b>
	1	314868	ROD HINGE PIN .38 X 19.5 Z	<b>18" COLD PLANER</b>
34	18	33626	WASHER LOCK	1/2"
35	26	33630	WASHER LOCK	5/8"
36	6	37214	NUT REV LOCK	1/2 NC
37	4	15307	BOLT HEX	5/8 X 1-1/4 NC GR 8 YZ
38	6	37212	NUT REV LOCK	3/8 NC
39	10	13207	BOLT HEX	1/2 X 1-1/4 NC GR 5
40	1	103880	WASHER LOCK	3/8"
41	1	36306	NUT HEX FULL	3/8 NC
42	2	65076	PIN COTTER 1/8 X 1	
55	10	23510	BOLT SOCKET CAP SCREW	5/8 X 1-3/4 NC GR 5
56	2	315308	PIN LYNCH 1/4	24"
	3	315308	PIN LYNCH 1/4	18"
65	2	24949	SCREW SET 5/16 X 1/2 DOG POINT	
69	2	317605	RUBBER LATCH BRACKET	
70	5	13107	BOLT HEX	3/8 X 1-1/4 NC GR 5
72	10	13212	BOLT HEX	1/2 X 2-1/4 NC GR 5
76	1	33022	WASHER FLAT1"	<b>18" COLD PLANER ONLY</b>
77	1	314844	ARM PIVOT 18 W/A	<b>18" COLD PLANER ONLY</b>
78	1	314863	PIN 1 X 3.31 Z	<b>18" COLD PLANER ONLY</b>
79	10	41125	RIVET 3/16 STEEL #64	
80	6	33012	WASHER FLAT	1/2"
81	2	314894	WASHER PLASTIC .53 X 2.75	
82	2	13207	BOLT HEX	1/2 X 1-1/4 NC GR 5
83	9	19929	BOLT 3/8 X 3/4 NC FLG GR 5	

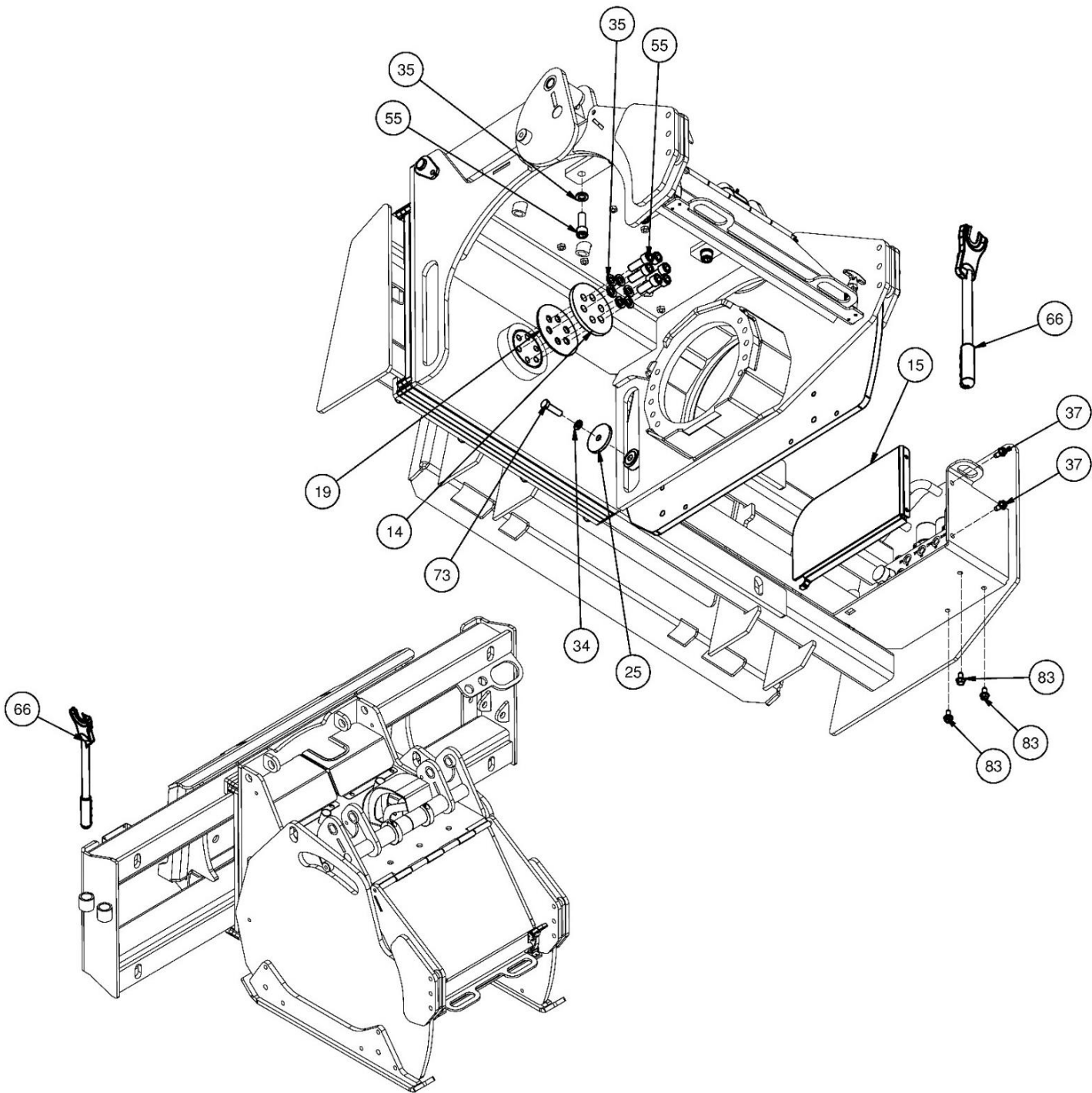
# PARTS INFORMATION



## PARTS INFORMATION

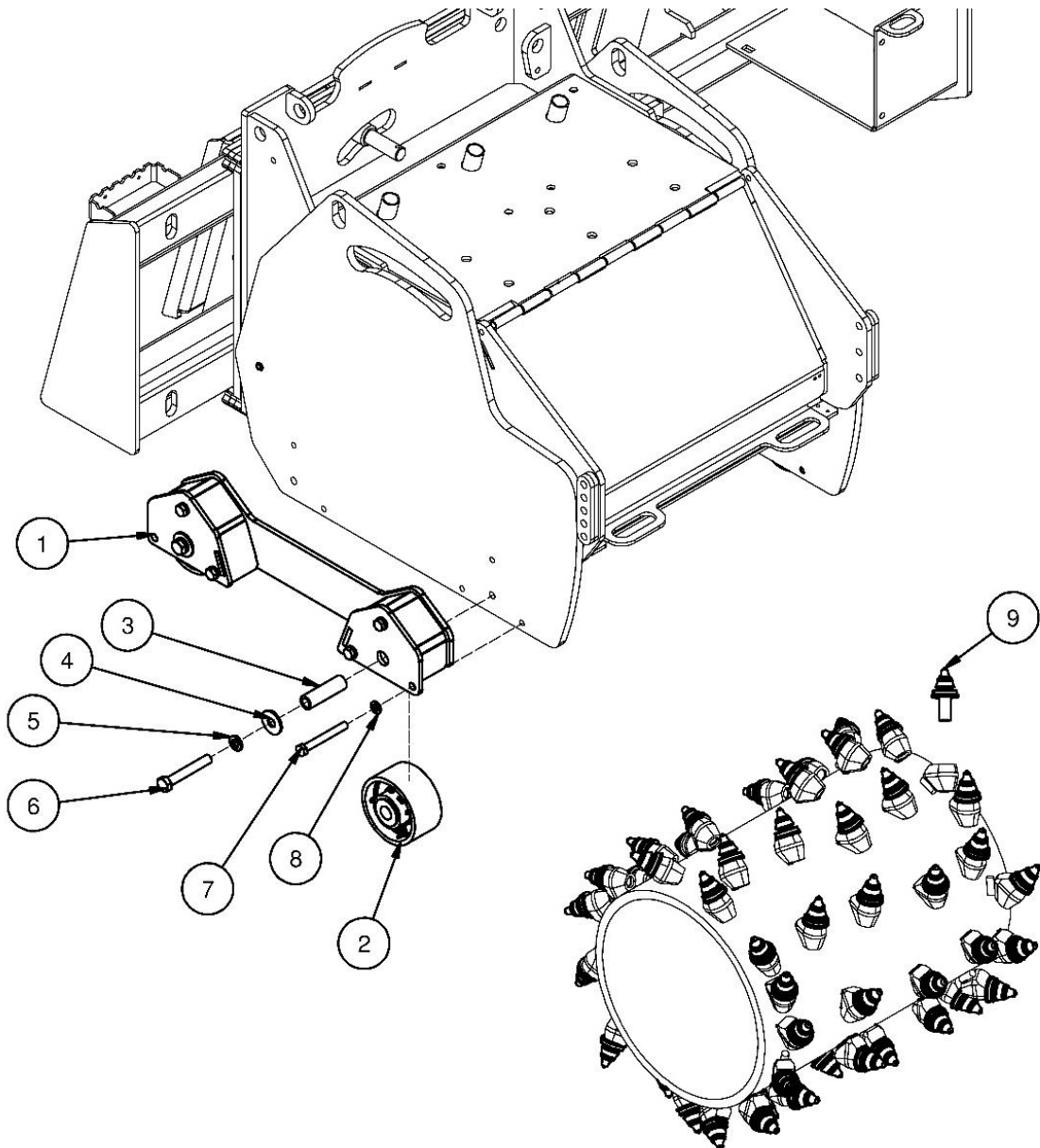
ITEM	QTY	PART NO.	DESCRIPTION	STOCK NO.
14	1	314781	PLATE PIVOT KEEPER PAINTED	(314774 UNPAINTED)
15	1	314784	SHIELD CP VALVE PAINTED	(314783 UNPAINTED)
19	1	314809	PLASTIC RETAINER DISK	
25	4	314656	WASHER .53ID X 2.75OD X .25 Z	
34	8	33626	WASHER LOCK	1/2"
35	22	33630	WASHER LOCK	5/8"
37	2	32467	BOLT FLG THRD RLNG	3/8 X 3/4 NC GR 5
40	4	103880	WASHER LOCK	3/8"
55	12	23510	BOLT SOCKET CAP SCREW	5/8 X 1-3/4 NC GR 5
66	1	320795	TOOL PICK REMOVAL ASPH/CONCRT	<b>REPLACED 314874</b>
	1	314874	TOOL BIT REMOVER ASSEMBLY	<b>REPLACED BY 320795</b>
73	4	13205	BOLT HEX	1/2 X 1 NC GR 5
83	9	19929	BOLT 3/8 X 3/4 NC FLG GR 5	
86	3	103116	BOLT HEX	3/8 X 1 UNC GR5

# PARTS INFORMATION



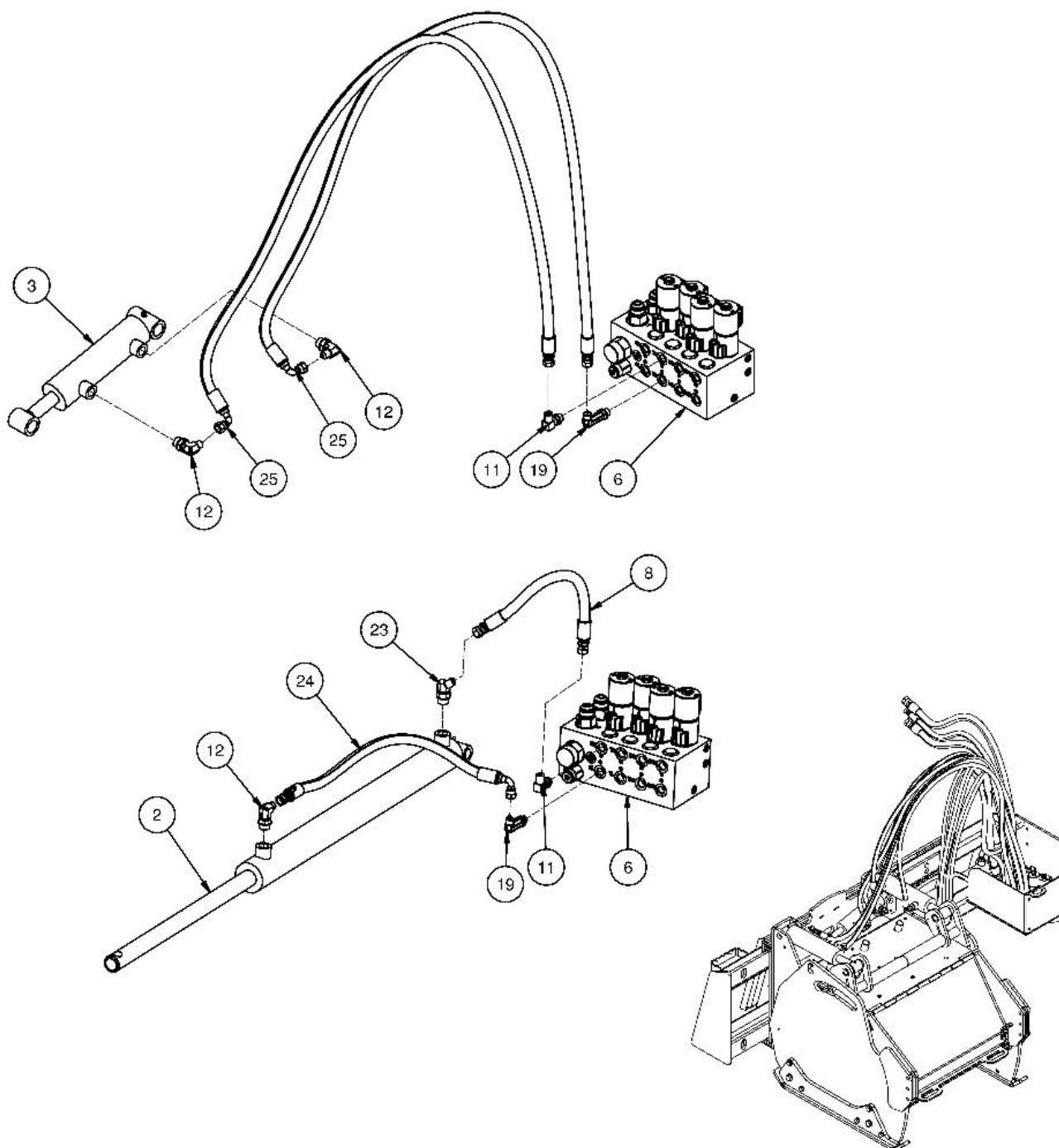
## PARTS INFORMATION

ITEM	QTY	PART NO.	DESCRIPTION	STOCK NO.
		<b>314486</b>	<b>PKG OPT ROLLER BOLT ON CP</b>	
1	2	314411	FRAME MOUNT ROLLERS CP W/A	
2	4	319327	ROLLER FORGED 5 X 1 X 2.75	
3	4	314484	BUSH 1 X .66 X 3.38 Z	
4	4	33090	WASHER FLAT SAE	5/8"
5	4	33630	WASHER LOCK	5/8"
6	4	13319	BOLT HEX	5/8 X 4 NC GR 5
7	10	13219	BOLT HEX	1/2 X 4 NC GR 5
8	10	33626	WASHER LOCK 1/2	1/2"
9	48	314828	TOOTH BULLET CP/RS UTILITY	<b>CP18 REPLACEMENT PKG 314789</b>
	48	314829	TOOTH BULLET CP/RS ASPHALT	<b>CP18 REPLACEMENT PKG 314790</b>
	48	314830	TOOTH BULLET CP/RS CONCRETE	<b>CP18 REPLACEMENT PKG 314791</b>
	60	314828	TOOTH BULLET CP/RS UTILITY	<b>CP24 REPLACEMENT PKG 314792</b>
	60	314829	TOOTH BULLET CP/RS ASPHALT	<b>CP24 REPLACEMENT PKG 314793</b>
	60	314830	TOOTH BULLET CP/RS CONCRETE	<b>CP24 REPLACEMENT PKG 314794</b>



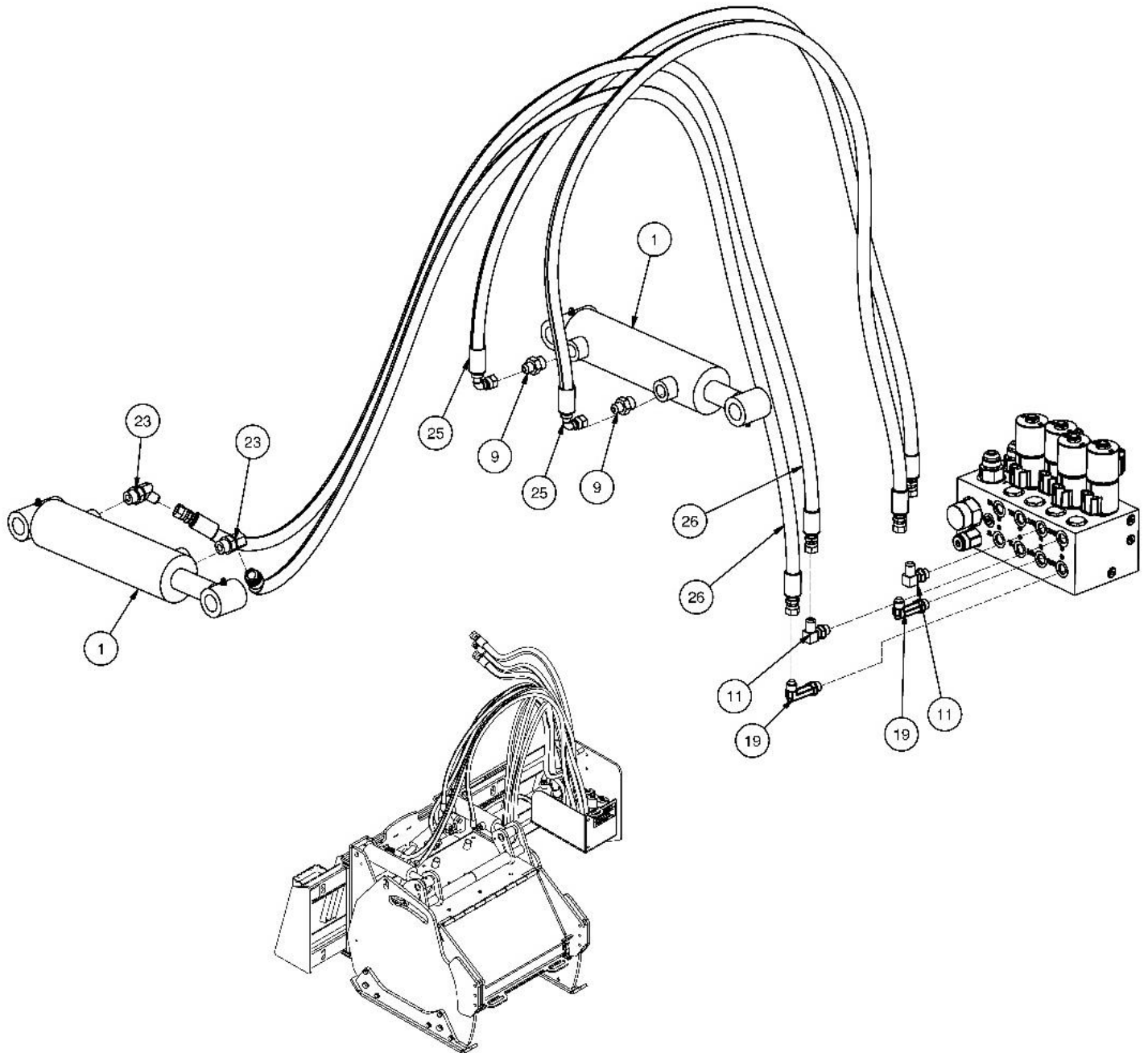
## PARTS INFORMATION

ITEM	QTY	PART NO.	DESCRIPTION	STOCK NO.
2	1	317274	CYLINDER 2 X 24 B-H	SIDE SHIFT CYL
3	1	400074	CYLINDER 2 X 4 B-B	TILT CYL
6	1	314716	VALVE ASSM 4-FUNC CP	
8	1	314893	HOSE 3/8 x 14" 6FJX-6FJX	SR PORT/SIDE SHIFT CYL
11	2	201539	ADPT ELB 6MB-6MJ-90	VALVE BLOCK
12	3	320089	ADPT ELB 8MB-6MJ-90	SIDE SHIFT/TILT - VALVE BLOCK
19	2	314822	ADPT ELB 6MB-6MJ-90LL	VALVE BLOCK
23	1	300274	ADPT ELB 8MB-6MJ-45	SIDE SHIFT CYL BASE
24	1	314802	HOSE 3/8 x 39" 6FJX-6FJX90	SL PORT/SIDE SHIFT CYL
25	2	314801	HOSE 3/8 x 64" 6FJX-6FJX90	TILT CYL TO VB



# PARTS INFORMATION

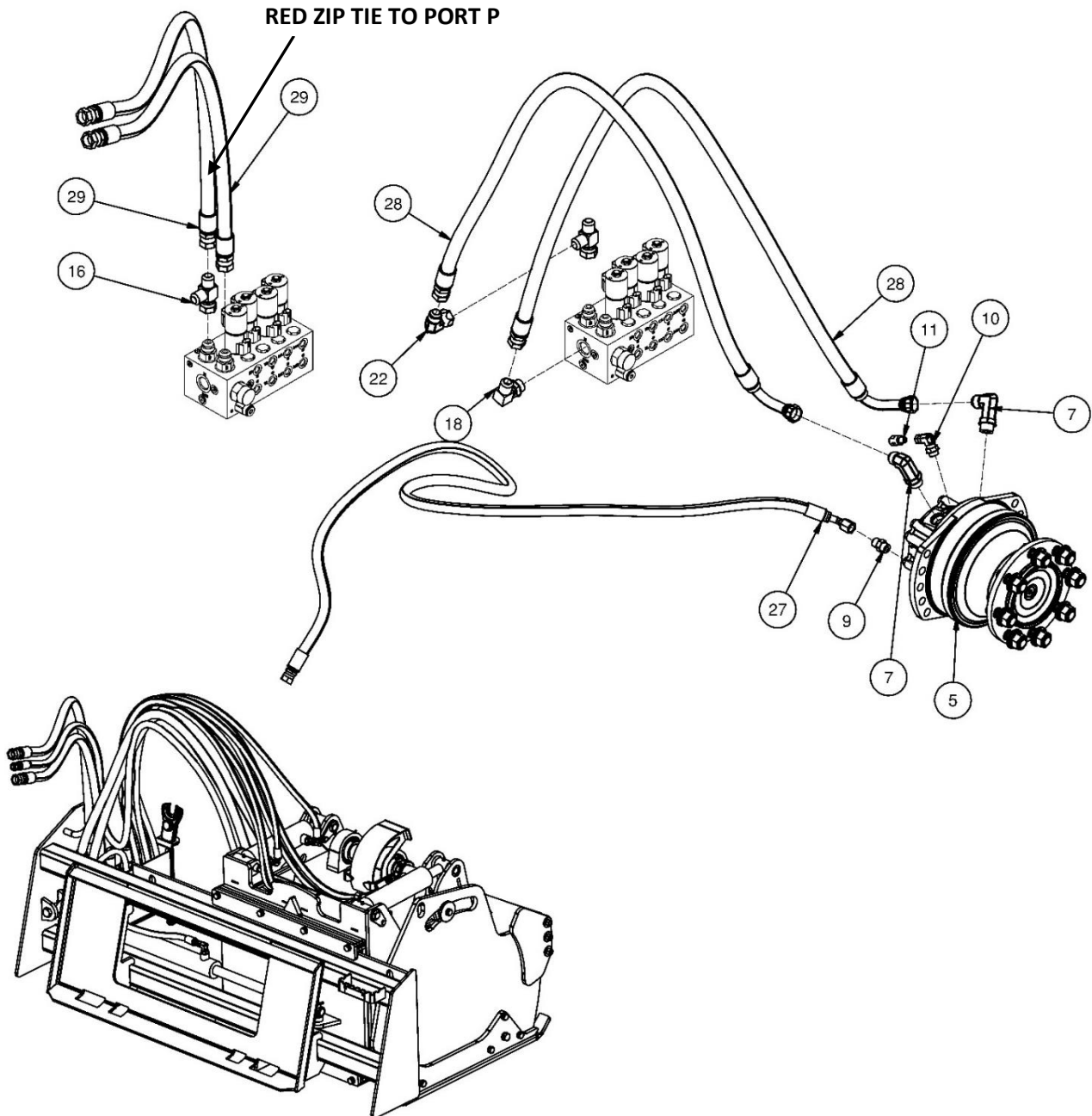
ITEM	QTY	PART NO.	DESCRIPTION	STOCK NO.
1	2	400015	CYLINDER 2.5 X 6 B-B	
9	2	201925	ADPT STR 8MB-6MJ	LH CYL
11	2	201539	ADPT ELB 6MB-6MJ-90	VALVE BLOCK
19	2	314822	ADPT ELB 6MB-6MJ-90LL	VALVE BLOCK
23	2	300274	ADPT ELB 8MB-6MJ-45	RH CYL
25	2	314801	HOSE 3/8 x 64" 6FJX-6FJX90	LH CYL
26	2	314800	HOSE 3/8 x 80" 6FJX-6FJX	RH CYL





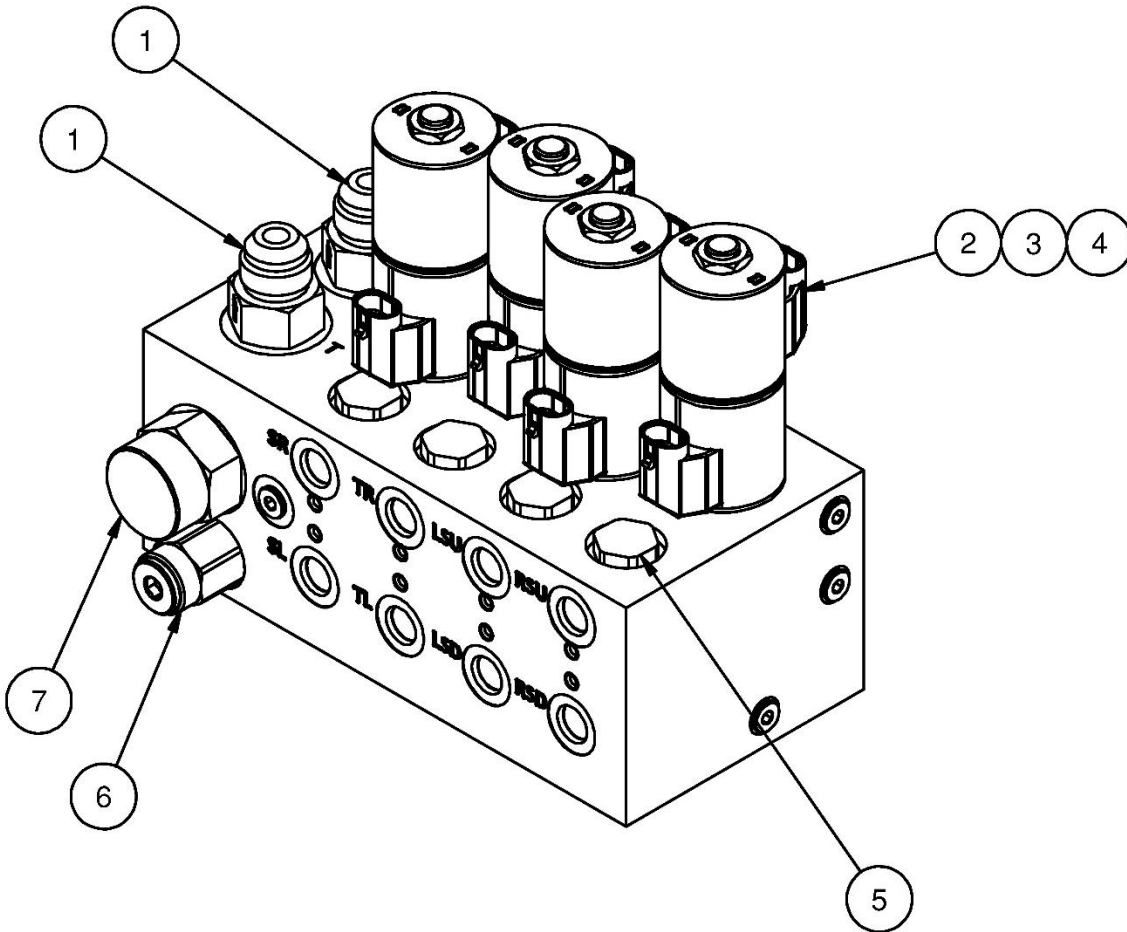
# PARTS INFORMATION

ITEM	QTY	PART NO.	DESCRIPTION	STOCK NO.
5	1	314420	MOTOR 52.3 MS08HF WHEEL HUB	REPLACED 314815
	1	314815	MOTOR 47.6 MS08 <b>OBSOLETE</b>	REPLACED BY 314420
	1	314711	PLATE COVER MOTOR CP	(NOT SHOWN FOR PARTS)
	1	314712	O-RING 5.5 X 3/32 (-161)	(NOT SHOWN FOR PARTS)
7	2	314832	ADPT ELB 12MB-12MJ-90L	MOTOR
9	1	300273	ADPT STR 8MB-8MJ	CASE DRAIN
10	1	330872	ADPT ELB 8MB-4FPX-90	MOTOR
11	1	331384	ADPT STR 4MP RELIEF 225PSI	MOTOR
16	1	314820	ADPT TEE 12FJX-12MJ-12MJ	VALVE BLOCK
18	1	300262	ADPT ELB 12MB-12MJ-90	VALVE BLOCK
22	1	314826	ADPT ELB 12MJ-12FJ-90	VALVE BLOCK
27	1	314776	HOSE 1/2 x 129" 8FJX-8FJX45	CASE DRAIN
28	2	314804	HOSE 3/4 x 69" 12FJX-12FJX90L	MOTOR
29	2	314805	HOSE 3/4 x 65" 12FJX-12FJX	LEAD



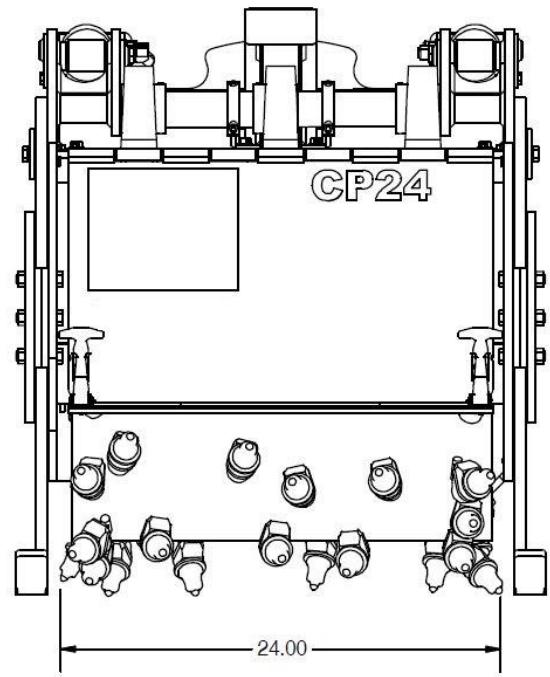
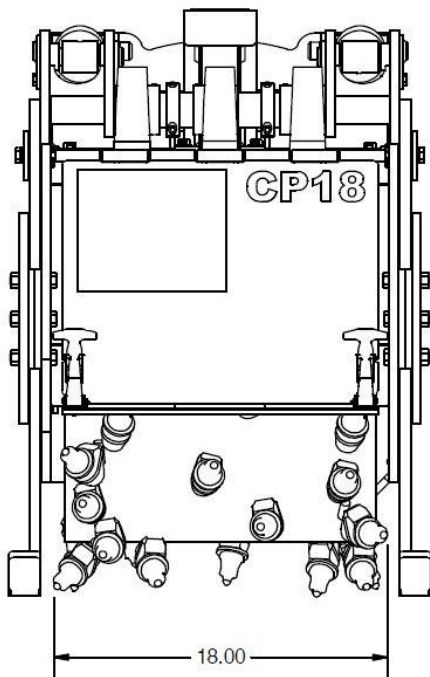
## PARTS INFORMATION

ITEM	QTY	PART NO.	DESCRIPTION	STOCK NO.
1	2	330862	ADPT STR 12MB-12MJ CHECK 5PSI	
2	8	314899	COIL VALVE 12V ECOIL #10	
3	4	300955	WASHER E-COIL SPACER SP10	
4	4	321003	VALVE DIRECTIONAL 10-57D	
5	4	321311	VALVE CHECK DUAL PO	
6	1	300298	VALVE RELIEF HIDDEN 08-20H	
7	1	330959	LOGIC ELEMENT FLOW REG DRAIN CP	







# GENERAL SPECIFICATIONS

CP18 Specifications		CP24 Specifications	
<b>Motor Specs</b>		<b>Motor Specs</b>	
Minimum Flow Rate	22 GPM	Minimum Flow Rate	25 GPM
Maximum Flow Rate	40 GPM	Maximum Flow Rate	40 GPM
Maximum Speed	170 RPM	Maximum Speed	170 RPM
Minimum Operating Pressure	2800 PSI	Minimum Operating Pressure	3000 PSI
Maximum Pressure	5800 PSI	Maximum Pressure	5800 PSI
Maximum Power Output	55 HP	Maximum Power Output	55 HP
Maximum Torque	3660 lb ft	Maximum Torque	3660 lb ft
<b>Planer Specs</b>		<b>Planer Specs</b>	
Hydraulic Flow Classification	High Flow Attachment	Hydraulic Flow Classification	High Flow Attachment
Number of Teeth	48	Number of Teeth	60
Width of Cut	18"	Width of Cut	24"
Depth of Cut	6"	Depth of Cut	6"
Depth Control	Hydraulic (Ind. Left & Right Shoe)	Depth Control	Hydraulic (Ind. Left & Right Shoe)
Side Shift Distance	24"	Side Shift Distance	24"
Side Shift Control	Hydraulic	Side Shift Control	Hydraulic
Maximum Tilt Angle	±16°	Maximum Tilt Angle	±16°
Tilt Control	Hydraulic	Tilt Control	Hydraulic
Overall Width	65"	Overall Width	65"
Overall Length	45"	Overall Length	45"
Overall Height	34"	Overall Height	34"
Overall Weight	1600 lbs.	Overall Weight	1750 lbs.



## TROUBLESHOOTING

PROBLEMS	POSSIBLE CAUSE	POSSIBLE SOLUTION
 <p><b>Poor Rotation</b></p>	<p>Worn pick holders.</p> <p>Excess material build-up on pick shank.</p> <p>Holder not properly aligned.</p> <p>Excessive machine speed.</p>	<p>Replace the worn holders.</p> <p>Clean holder &amp; shank with solvent.</p> <p>Remove incorrect holder and reposition.</p> <p>Slow down the machine.</p>
 <p><b>Excessive Steel Body Wear</b></p>	<p>Caused by soft abrasive material.</p> <p>High rotational speed.</p>	<p>Consider using a larger diameter carbide tip base.</p> <p>Consider using a heavier body pick.</p>
 <p><b>Extreme Carbide Tip Wear</b></p>	<p>Hard material (aggregate)</p> <p>Heat build-up on the pick.</p>	<p>Consider using a larger carbide tip.</p> <p>Consider cooling picks with water.</p>
 <p><b>Tip Fractures</b></p>	<p>Extremely hard material (aggregate)</p> <p>Heat build-up on the pick.</p> <p>Improper pick installation.</p> <p>Poor rotation.</p>	<p>Consider using a larger carbide tip base diameter.</p> <p>Consider cooling picks with water.</p> <p>Use pick installation tool, rubber mallet, or copper hammer.</p> <p>See above instructions.</p>

# TROUBLESHOOTING

PROBLEMS	POSSIBLE PROBLEMS	POSSIBLE SOLUTION
<b>Motor on the planer will not operate.</b>	<p>Auxiliary hoses not hooked up to the skid steer.</p> <p>Obstruction in hydraulic lines.</p> <p>Hydraulic motor damaged or seals blown.</p> <p>Skid steer auxiliary valve not engaged.</p>	<p>Engage Couplers</p> <p>Remove obstruction and replace if necessary.</p> <p>Call service department for instructions.</p> <p>Engage auxiliary valve.</p>
<b>Drum rotates sluggishly.</b>	<p>Insufficient hydraulic flow from the skid steer.</p> <p>Damaged quick coupler.</p> <p>Hydraulic motor damaged or seals blown.</p> <p>Oil filter on skid steer is dirty.</p>	<p>Refer to skid steer's owner's manual.</p> <p>Replace if necessary.</p> <p>Call service department for instructions.</p> <p>Refer to skid steer's owner's manual.</p>
<b>Leaking Oil.</b>	<p>Loose or damaged hydraulic line.</p> <p>O-Rings on fittings damaged.</p> <p>Hydraulic motor damaged or seals blown.</p> <p>Fittings loose or damaged.</p> <p>Cylinder seals damaged.</p>	<p>Tighten or replace.</p> <p>Replace if necessary.</p> <p>Call service department for instructions.</p> <p>Tighten or replace.</p> <p>Replace cylinder seals.</p>
<b>Insufficient power.</b>	<p>Insufficient hydraulic flow from the skid steer.</p> <p>Relief valve setting adjusted too low.</p> <p>Hydraulic motor damaged or seals blown.</p> <p>Oil filter on skid steer is dirty.</p>	<p>Refer to skid steer's owner's manual.</p> <p>Refer to skid steer's owner's manual.</p> <p>Call service department for instructions.</p> <p>Refer to skid steer's owner's manual.</p>
<b>Drum rotates in the wrong direction.</b>	<p>Hoses from the valve to the motor incorrectly connected.</p>	<p>Switch hoses at the motor end.</p>
<b>Excessive vibration during planing operation.</b>	<p>Picks are worn or broken.</p> <p>Picks contain flat spots or are not rotating freely.</p> <p>Insufficient down force due to incorrect operating procedure.</p>	<p>Visually inspect the picks and replace as necessary.</p> <p>Visually inspect the picks and replace as necessary.</p> <p>Refer to the Operating section of this manual.</p>

## TROUBLESHOOTING

<b>PROBLEMS</b>	<b>POSSIBLE PROBLEMS</b>	<b>POSSIBLE SOLUTION</b>
<b>Excessive oil temperature.</b>	<p>Hydraulic oil level too low.</p> <p>Obstruction in hydraulic lines.</p> <p>Hydraulic oil or oil filter in skid steer is dirty.</p> <p>Relief valve setting adjusted too low.</p>	<p>Refer to skid steer's owner's manual</p> <p>Remove obstruction and replace if necessary.</p> <p>Refer to skid steer's owner's manual.</p> <p>Refer to skid steer's owner's manual.</p>
<b>All hydraulic cylinders not functioning.</b>	<p>Blown fuse on skid steer.</p> <p>Damaged electrical wiring.</p>	<p>Refer to skid steer's owner's manual.</p> <p>Test and replace if necessary.</p>
<b>A Hydraulic cylinder not operating.</b>	<p>Insufficient hydraulic flow from the skid steer.</p> <p>Solenoid valve spool bent.</p> <p>Nut on Solenoid valve too tight</p> <p>Cylinder rod bent.</p> <p>Cylinder seals damaged.</p> <p>Obstruction in hydraulic lines.</p>	<p>Refer to skid steer's owner's manual.</p> <p>Replace spool.</p> <p>Loosen nut.</p> <p>Visually inspect the cylinder for damage.</p> <p>Replace cylinder seals.</p> <p>Remove obstruction and replace if necessary.</p>
<b>Hydraulic cylinders only operating in one direction.</b>	<p>Contaminants in the hydraulic system and solenoid valve.</p> <p>Damaged electrical wiring.</p> <p>Solenoid valve spool bent.</p> <p>Nut on Solenoid valve too tight.</p> <p>Air in the hydraulic cylinder.</p>	<p>Remove spool from solenoid valve and check for foreign material. Clean or replace.</p> <p>Remove spool from solenoid valve and check seals for damage. Replace if necessary.</p> <p>Test and replace spool if necessary.</p> <p>Loosen nut.</p> <p>Loosen a fitting on the cylinder and bleed the air out of the line.</p>



## **LIMITED WARRANTY**

Erskine Attachments LLC warrants each new machine manufactured by us to be free from defects in material and workmanship for a period of twenty-four (24) months from date of delivery to the original purchaser.

Our obligation under this warranty is to replace free of charge, at our factory or authorized dealership, any part proven defective within the stated warranty time limit.

All parts must be returned freight prepaid and adequately packaged to prevent damage in transit.

This warranty does not cover:

1. New products which have been operated in excess of rated capacities or negligence
2. Misuse, abuse, accidents or damage due to improperly routed hoses
3. Machines which have been altered, modified or repaired in any manner not authorized by our company
4. Previously owned equipment
5. Any ground engaging tools in which natural wear is involved, i.e. tooth tips, cutting teeth, etc
6. Normal maintenance
7. Fork tines
8. Hydraulic motors that have been disassembled in any manor

In no event will the Sales Representative, Dealership, Erskine Attachments LLC, or any other company affiliated with it or them be liable for incidental or consequential damages or injuries, including but not limited to the loss of profit, rental or substitute equipment or other commercial loss. Purchaser's sole and exclusive remedy being as provided here in above.

Erskine Attachments LLC must receive immediate notification of defect and no allowance will be made for repairs without our consent or approval.

This warranty is in lieu of all other warranties, express or implied by law or otherwise, and there is no warranty of merchantability or fitness purpose.

No agent, employee, or representative of Erskine Attachments LLC has any authority to bind Erskine Attachments LLC to any warranty except as specifically set forth herein. Any of these limitations excluded by local law shall be deemed deleted from this warranty; all other terms apply.

This warranty may not be enlarged or modified in any manner except in writing signed by an executive officer of Erskine Attachments LLC to improve its products whenever it is possible and practical to do so. Erskine Attachments LLC reserves the right to make changes and or add improvements at any time without incurring any obligation to make such changes or add such improvements to products previously sold.

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**P/N 314819**  
Erskine Attachments LLC

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