



## **RS18 ROAD SAW**

### **MANUAL**

- Operation
- Maintenance
- Service
- Parts
- Warranty

Serial number \_\_\_\_\_

Date released for shipment \_\_\_\_\_

PUBLICATION DATE: 7/25/22

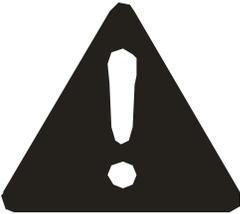
## INTRODUCTION

Thank you for your investment in a SkidPro road saw. We are confident that you will find that your SkidPro road saw is the easiest to operate, safest, most durable, and most efficient attachment on the market.

Your SkidPro Road Saw is equipped with high performance, heavy duty components. To ensure that these components operate properly and effectively, the instructions in this manual must be followed. If any question regarding the operation or performance of this attachment exists, contact your SkidPro Guru.

This manual contains safety instructions, guidelines for efficient operation, troubleshooting tips, and service maintenance procedures. When applicable, the terms “right” and “left” are referenced from a sitting position and facing forward in the loader.

Throughout this manual, information is provided in boxes and highlighted by the word **IMPORTANT**. This information should be read carefully. If complied with, it will improve the operating efficiency of the unit and provide directives that will minimize costly breakdowns and extend the life of the machine.



This warning symbol appears throughout this manual and indicates that a safety hazard may exist if the information given is not properly followed. When the warning signal is encountered in the manual or on the unit, Be Alert! Your personal safety is involved!

For more copies of this manual or the necessary safety decals, contact your SkidPro Guru.

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## 1.1 INTRODUCTION

Your SkidPro road saw is equipped with high performance, heavy duty components. To ensure that these components operate properly and effectively, the warning and instructions in this manual must be followed. If a question regarding the operation or performance of this attachment exists, contact your SkidPro Guru.

This manual contains safety instructions, guidelines for efficient operation, parts drawings, and hydraulic and electrical schematics.

## 1.2 DIRECTION REFERENCE

When applicable, the terms “right” and “left” are referenced from the operator’s seat, facing forward in the loader.

## 1.3 SERVICING DRIVETRAIN COMPONENTS

Detailed repair of the drive train components such as the hydraulic motor and gearbox is not covered in this manual. Contact your SkidPro Guru for information about repairing these components during the warranty period.

Any unauthorized work performed on these components during the warranty period may void your warranty.

## 2.1 GENERAL SAFETY

A careful operator is the best protection against accidents. Most accidents involving operators of industrial equipment are caused by failure to observe basic safety precautions. Know the equipment and worksite before you operate. Familiarize yourself with the safety precautions listed below.



## WARNING

**THE FOLLOWING PRECAUTIONS MUST BE OBSERVED FOR THE SAFETY OF THE OPERATOR AND/OR SERVICE PERSONNEL.**

1. Read and observe all safety information and decals on the skid steer loader and attachment **BEFORE** operating the unit!
2. Refer to the **SAFETY** section of your skid loaders operator’s manual and observe all safety recommendations set forth in the manual.
3. When loading, keep attachment as low to ramps & trailer as possible.
4. Always lower the loader arms fully before leaving the skid steer seat.
5. **BE SURE** to raise the attachment off the ground **BEFORE** side shifting.
6. **CAREFULLY** inspect ALL hydraulic hoses and connections on a routine basis; Always use a piece of cardboard when searching for leaks.
7. **BE SURE** to exercise the above **MANDATORY SAFETY SHUTDOWN** procedure, **BEFORE** proceeding with any work on the attachment.



## WARNING

**NEVER CRAWL UNDER RAISED LOADER ARMS.**



## WARNING

**NEVER ALLOW HANDS OR FEET NEAR ANY WORKING PART OF THE ATTACHMENT UNLESS THE MANDATORY SAFETY SHUTDOWN PROCEDURE HAS BEEN COMPLETED.**



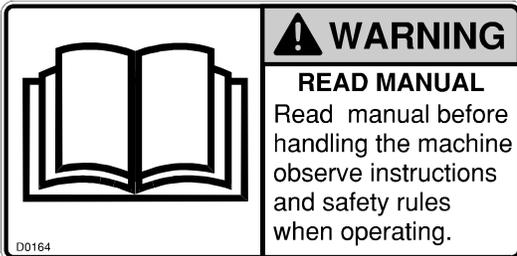
## WARNING

**NEVER USE YOUR HANDS OR OTHER BODY PART TO CHECK FOR HYDRAULIC FLUID LEAKS. ESCAPING FLUID UNDER PRESSURE CAN PENETRATE THE SKIN CAUSING SERIOUS INJURY. IF HYDRAULIC FLUID PENETRATES THE SKIN, SEEK TREATMENT FROM A DOCTOR FAMILIAR WITH THIS TYPE OF CONDITION OR SERIOUS INJURY OR DEATH MAY RESULT.**

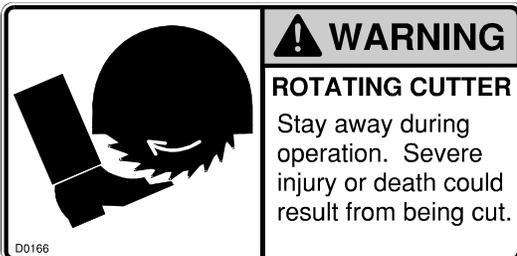
## 2.2 SAFETY DECALS

The safety decals existing on the attachment should be clearly readable and always followed. The location of the decals is shown in the parts diagram.

The READ MANUAL decal warns the operator to read this manual before operating the attachment.



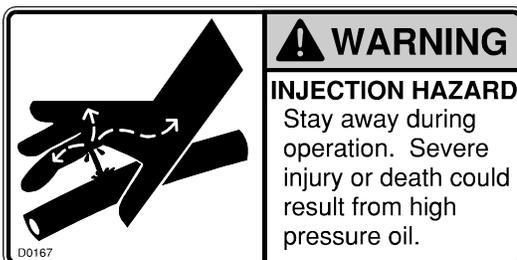
The ROTATING CUTTER decal warns the operator and bystanders to stay away during operation.



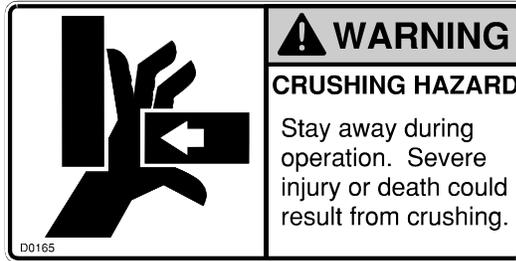
The FLYING OBJECTS decal warns the operator the operator and bystanders to stay away during operation.



The INJECTION HAZARD decal warns the operator and bystanders to stay away during operation.



The CRUSHING HAZARD decal warns the operator and bystanders to stay away during operation.

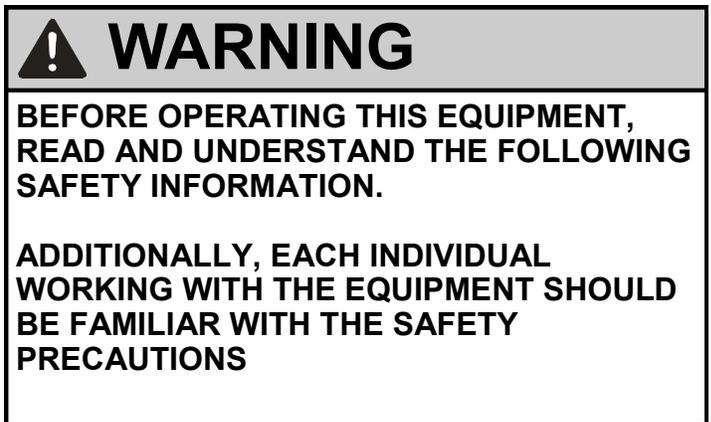


## 2.3 CALL BEFORE YOU DIG

### ACCIDENTS ARE PREVENTABLE WITH YOUR HELP

Understand and comply with applicable laws and regulations.

- Call local utilities before you dig.  
1-888-258-0808
- Know the location of underground gas, water and electrical lines.
- Inspect area for holes, drop-offs, or unstable ground.
- Know the weight limitations of operating surfaces and clearances.



## 2.4 MANDATORY SAFETY SHUTDOWN PROCEDURE

### **WARNING**

**FAILURE TO FOLLOW THE SAFETY PROCEDURES BEFORE CLEANING, ADJUSTING, LUBRICATING, OR SERVICING THIS UNIT COULD LEAD TO SERIOUS INJURY OR DEATH.**

**BEFORE** cleaning, adjusting, lubricating, or servicing this unit, **ALWAYS** follow the **MANDATORY SAFETY SHUTDOWN PROCEDURE**:

1. Move the skid steer loader propulsion control levers to the “neutral” position.
2. Shut off the attachment by shutting off the auxiliary and high flow hydraulic output.
3. Lower the loader lift arms completely roll the attachment forward so it is securely resting on firm ground or the shop floor.
4. Engage the loader park brake.
5. Move the loader throttle to the slow idle position, shut the engine off, and remove the ignition key.
6. Keep the key with you at all times when working on the unit so no one can start the engine without your knowledge.

## 3.1 SETUP

Although the road saw is supplied fully assembled, some simple checks should be performed before operation

### **WARNING**

**READ THIS MANUAL AS WELL AS THE DECALS ON THE ATTACHMENT BEFORE ATTEMPTING ANY MAINTENANCE, SERVICE OR SETUP OF THE UNIT.**

begins.

#### **Safety Decals**

The safety decals existing on the attachment should be clearly readable and always followed. The location and description of the decals is shown in the parts diagram. Copies of the decals are shown in Safety Decals section.

#### **Hydraulic Couplers**

The road saw may have been shipped without the required hydraulic quick couplers. Obtain correct brand and size and install them on the hoses.

On a 3 line road saw, the pressure “in” port on the diverter valve is marked LP for motor pressure. Return flow to the loader is marked LR for motor return. The small hose is for drive motor case drain and is plumbed directly to the skid steer case drain coupler.

**The case drain hose should be connected directly to the case drain coupler on the skid steer. Do not operate without connecting this hose.**

#### **Hoses / Fittings**

Hydraulic fittings are used to connect all attachment hoses. All fittings should be tight and free of hydraulic leaks. Hoses must be free of crimps or cuts that might result in leakage. Check your attachment before operation to make sure all hose routings are kink-free and allow for maximum movement of all extend, lift/lower, and/or swing motion required during normal operation.

#### **Wire Harness**

The wiring harness to the electro hydraulic valve block should be routed to prevent catching or pinching when side shifting, or lowering the wheel fully into the cut.

#### **Wheel Assembly**

For proper operation, picks must be installed in every holder on the wheel.

#### **Motor Case Drain**

The SkidPro road saw has a planetary gearbox mounted within the wheel which is driven through a hydraulic piston motor.

## IMPORTANT

Unobstructed case drain flow is critical to proper road saw motor operation. Blocked case drain flow will damage the road saw motor.

During motor operation, some oil by passes the motor and must be allowed an unobstructed path back to the hydraulic tank. If this flow is restricted, then pressure will build up inside the motor and will fail the motor's shaft seal or the end cap gasket, or both.

Several causes can lead to this failure:

1. Pinched or crushed case drain hose can restrict flow.
2. Disconnected case drain quick coupler can restrict flow.
3. Wheel teeth come in contact with the pavement or trailer ramps while the skid steer is in motion, forcing the wheel to rotate with the high flow hydraulic circuit "off." This wheel rotation forces the motor to turn, which pressurizes the motor's case, because the pressure and return oil's path has been blocked.

If the above issues are not addressed, severe motor damage may result. All of these issues can be attributed to the operator and are preventable with proper operation. Different manufactures of skid steers use different sizes of case drain couplers and locate the coupler on the skid steer in a different location. Never switch road saw between skid steer manufactures without ensuring the case drain line is hooked up to the correct coupler.

**Unless a defect in the motor is found, these shaft seal and end cap gasket failures are not covered under warranty.**

### 3.2 ATTACHING TO LOADER

To attach the unit to the loader, start the loader engine and rotate the coupler out. Pull both coupler levers up to the vertical position. Move the machine forward and pick up the attachment. Rotate the attachment back and push both coupler levers completely down. Make sure the two wedges are completely down and engaged. Be sure pins and latch handles are secure before operating boom and

## IMPORTANT

All hoses should be free of kinks, cuts, or abrasions for safe operation. Do not operate if hoses are worn or damaged.

bucket. **Always refer to operating instructions in the skid steer manual.**

Next, connect all hydraulic hoses are to the skid steer quick couplers. Three hoses must be connected. Motor pressure, motor return, motor case drain.

Lastly, connect the wiring harness to the skid steer.

### 3.3 BASIC OPERATION

**See the specifications in this manual for minimum and maximum pressure and flow requirements. Maximum pressures vary depending on road saw valve configuration. Valve configuration varies depending on skid steer manufacturer.**

The road saw is a hydraulically powered attachment intended for cutting asphalt or concrete surfaces. The

## IMPORTANT

**Insufficient hydraulic power will result in poor performance. Check pressure and flow per factory skid steer specifications.**

performance of the attachment can vary greatly depending upon how it is used and operated. The recommended operating procedures in this manual should be followed at all times for maximum productivity.

Before operating the attachment, read this entire manual. Follow all safety guidelines in this manual and safety decals on the unit. Make sure that all guards, shields, and decals are in place and in good condition prior to operation.

1. Enter skid steer and fasten seat belt.
2. Make sure the area is clear of bystanders and other workers.
3. Start the skid steer and engage the high flow hydraulic circuit at idle.
4. Adjust the road saw's depth and side shift as needed using the electro-hydraulic controls. On a 3 line road saw, the high flow circuit must be engaged to operate these adjustments.
5. Fully lower the loader arms and then roll out the bucket function until the road saw is level with the pavement.
6. Move the throttle to the full rpm position and keep it there during the milling operations. Begin the operation by setting the depth cylinders to zero depth. Lower the wheel into the cut to the desired depth. Move forward at a speed that will allow the wheel to cut efficiently without stalling.

### 3.4 MAXIMIZING PRODUCTION

Production can vary greatly depending on milling depth, type of aggregate in the mix, ambient temperature and condition of the cutting teeth.

Teeth should be inspected every 30 minutes and worn teeth replaced. Teeth should freely rotate in their holders. See the maintenance section for more information.

Optional teeth for milling concrete and water spray kits are available. Water spray kits increase production by suppressing dust and helping the teeth rotate properly.

Only cut straight lines. Do not turn while milling. Cutting curves will quickly wear the edge picks, decreasing production. Milling a radius or curve can also damage the wheel.

### 4.1 GENERAL MAINTENANCE

 <b>WARNING</b>
<b>BEFORE PERFORMING ANY MAINTENANCE ON THE UNIT, PERFORM THE MANDATORY SAFETY SHUTDOWN PROCEDURE.</b>

Proper maintenance of the attachment will result in longer life and more productive and cost effective operation. There are two basic categories of maintenance, cutting wheel maintenance and component lubrication.

### 4.2 CUTTING WHEEL MAINTENANCE

**Cutting Wheel maintenance is critical to extending the life of the pick and holder and overall production of the road saw. Inspect the cutting wheel every 30 minutes of operation.**

The factory installed carbide pick is a general purpose pick and is designed for milling both asphalt and concrete. Picks designed for extended periods of concrete cutting are available from the factory or your dealer.

Pick life varies with depth, density, material, aggregate and maintenance, which includes allowing the tooth to rotate. To maximize pick life, the picks must be free to rotate in the holder. The pick has two functions: serves as the consumable cutting tool and it protects the holder. The tooth must be free to rotate in the holder. If it locks up, then tooth and holder wear is greatly accelerated.

Edge teeth wear faster than center teeth, due to side loading of the wheel during the loader's steering corrections.

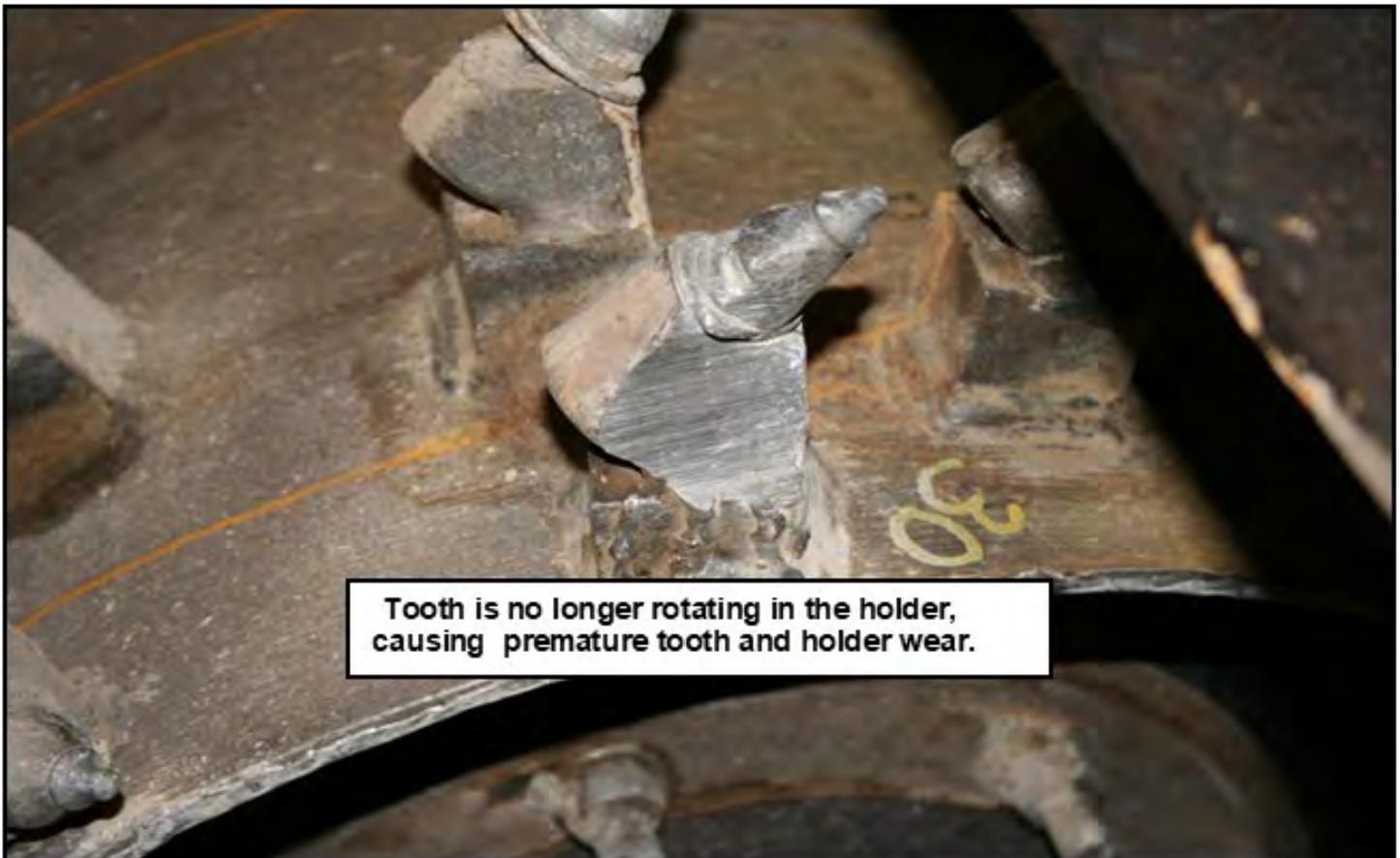
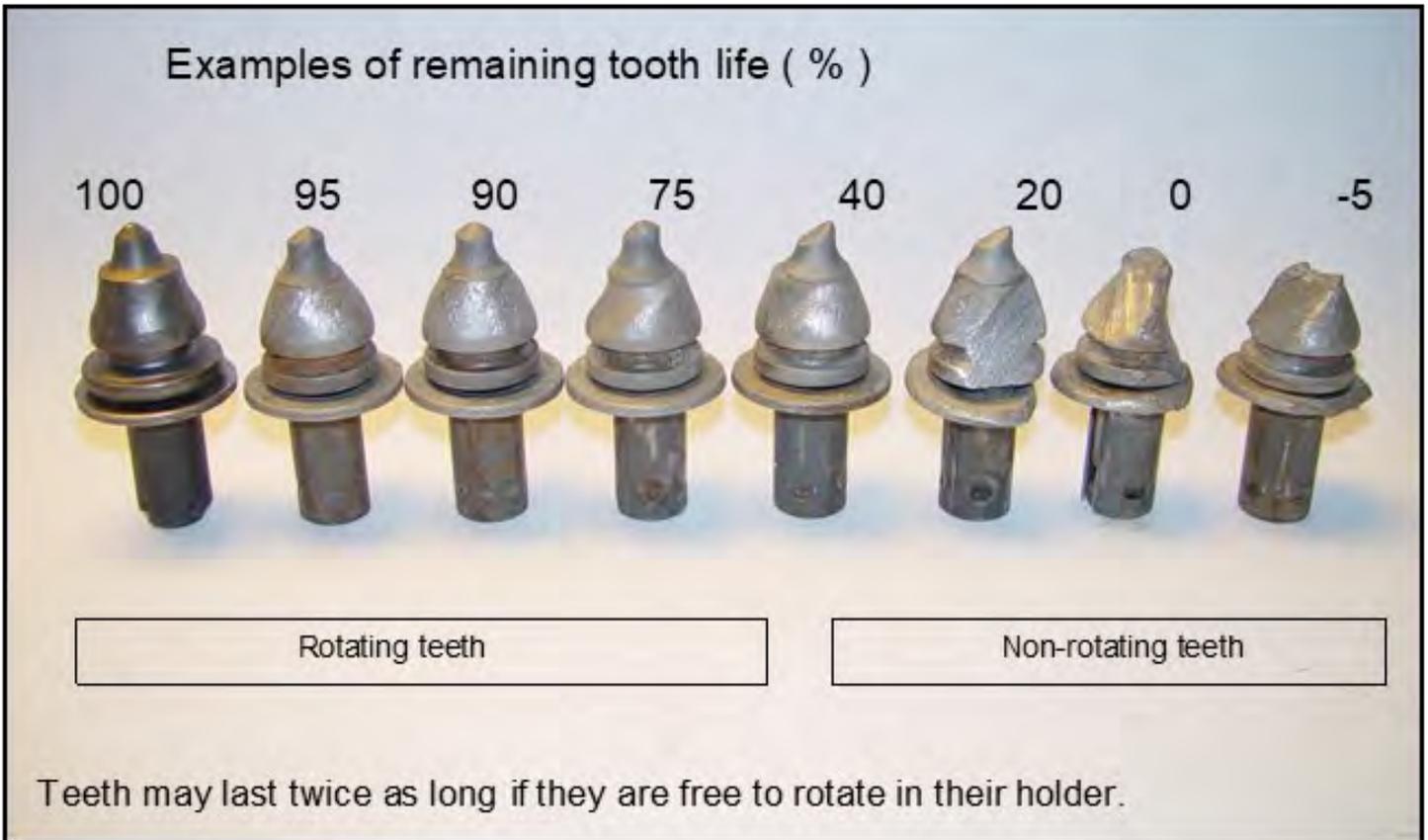
To promote pick rotation, spray the picks daily with a water based asphalt emulsifier to break down asphalt emulsion. ( Example: Zep's part # AR6690 )

If the pick remains in the holder beyond its intended replacement point, it reduces the cutting performance and will not protect the holder. If the picks are worn enough to indicate slight holder wear, replace the picks.

SkidPro recommends using a water spray kit. Using water may increase tooth life by 20 to 40% and also suppresses the milling dust.

The following pictures show examples of excessively worn teeth.

The following picture shows varying degrees of pick wear.



## REMOVING AND INSTALLING TEETH:

### **WARNING**

**NEVER STRIKE THE PICK ON THE CARBIDE TIP. THE CARBIDE CAN BREAK OR CHIP AND CAUSE INJURY.**

### **WARNING**

**ALWAYS WEAR EYE PROTECTION WHEN PERFORMING THIS OPERATION. HARDENED TOOL AND CARBIDE PICKS CAN SHATTER CAUSING INJURY.**

A fork type pick tool included with the road saw and should be used to remove the picks from the holders. Insert the fork into the groove on the tool and strike the tool with a hammer. In the event the pick tool is not available, a punch may be inserted into the bottom of the holders can be used to dislodge the pick.

For installation, the fork type tool should be inserted into the groove on the tooth and struck with a hammer. Also, if the tool is not available, a length of pipe with a 3/4 to 1 inch inside diameter can be placed over the pick to protect the carbide from a direct hit. Striking a small piece of wood placed on the pick to absorb the shock will also prevent damage.

**DO NOT STRIKE THE CARBIDE TOOTH TIP WHEN INSTALLING TEETH.**

## PICK HOLDER REPAIR:

### **IMPORTANT**

**TO AVOID BEARING DAMAGE ALWAYS GROUND DIRECTLY TO THE WHEEL BEFORE WELDING.**

If a pick holder becomes worn, Note the position and angle of the holder, cut the hold holder from the wheel using a torch or air-arc. Weld the new holder to the wheel in the noted position.

**SkidPro does not warrant ANY ground engaging parts (wheels, teeth, holders or bases) against wear, unless the wear is determined by SkidPro to have been caused by a manufacturing defect.**

## 4.3 ROAD SAW LUBRICATION

### **WARNING**

**FAILURE TO FOLLOW THE PROCEDURES BEFORE CLEANING, ADJUSTING, LUBRICATING, OR SERVICING THIS UNIT COULD LEAD TO SERIOUS INJURY OR DEATH.**

Always follow the **MANDATORY SAFETY SHUTDOWN PROCEDURE** before performing ANY maintenance.

There are three types of lubrication required on the SkidPro road saw. They are spray lubrication, greased components and planetary gearbox oil.

#### **Spray Lubrication:**

Spray side shift bars with graphite lube spray (such as CRC 03094) once a week. **Do not apply grease to the side shift bars.** Grease catches milling dust and causes the side shift mechanism to bind and wear quickly.

#### **Grease Lubrication:**

All greased components should be greased with an EP Lithium NLGL No. 2 grade grease. One example is Mobilux EP2.

The depth arm has a grease zerk on each end. These zerks should be greased weekly or every 40 hours of operation.

#### **Planetary Gearbox:**

The planetary gearbox oil should be drained and refilled at 100 hours of operation and every 250 hours after the initial change.

The planetary gearbox contains synthetic EP90 gear oil and should be half full during operation. The planetary gear oil should be drained and replaced each year. Oil Drain and fill procedure:

1. Clean area around 3 plugs on gearbox face near motor.
2. Orient saw so small plug is horizontal with gearbox center line.
3. Remove large gearbox plug on gearbox face under motor. Drain oil.
4. Replace bottom plug, tighten.
5. Remove large plug above motor and small plug to the side of the motor.
6. Slowly fill gearbox through top large plug until oil fill reaches the spindle drain hole.
7. The gearbox should be half full of AGMA EP90 synthetic gear lubricant or SAE 75W90 synthetic gear lubricant. (Chevron RPM Synthetic 75W90 for example)
8. When half full lube will come out of small hole.

9. Replace two plugs and tighten.

## 4.4 WHEEL & GEARBOX REMOVAL

1. Perform mandatory shutdown procedure. Leave saw on skid steer.
2. Disconnect the pressure, drain, and case drain hose

### **WARNING**

**EXERCISE EXTREME CAUTION DURING THIS OPERATION TO PREVENT TIPPING OF THE UNIT.**

### **WARNING**

**COMPONENTS ARE EXTREMELY HEAVY AND CAN CAUSE SERIOUS INJURY IF PROPER LIFTING TECHNIQUES ARE NOT USED.**

from the hydraulic motor. Remove (2) motor bolts and lift motor away from chassis.

3. Remove 4 bolts and cover on the top of the chassis to expose cutout in chassis.
4. Using cutout in top of chassis, support wheel with hoist. Remove a pick and use hole in holder to lift.
5. Remove (4) bolts holding the planetary support plate to chassis. Remove (5) top bolts connecting the gearbox to the chassis.
6. Start skid steer and raise chassis off of wheel using care to not catch hoist chain.
7. Once clear of wheel, lower wheel with hoist. Place wheel on blocks with access to gearbox spindle bolts. Place wheel with gearbox up.
8. To remove wheel from gearbox, remove (8) wheel to gearbox bolts and lift gearbox from wheel.

### **WARNING**

**IF THE WHEEL DOES NOT LOWER, CHECK ALIGNMENT GEARBOX AND WHEEL TO CHASSIS. DO NOT ATTEMPT TO DISLodge THE WHEEL WHILE THE ROAD SAW FRAME IS IN THE RAISED POSITION. NEVER PLACE HANDS OR ANY PART OF YOUR BODY IN, AROUND, OR UNDER THE WHEEL, AS IT MAY FALL AND CAUSE SERIOUS INJURY.**

## 4.5 WHEEL BOLT TORQUEING

The 8 bolts connecting the wheel to the gearbox spindle are to be torqued to 220-250 lb.-ft after 5 hours of

operation then every 40 hours.

1. Perform mandatory shutdown procedure with saw at zero depth and saw slightly off of ground.
2. Remove (2) side guard retaining bolts. Remove retainers and spacers. Remove (1) side front guard retaining ring.

### **WARNING**

**COMPONENTS ARE EXTREMELY HEAVY AND CAN CAUSE SERIOUS INJURY IF PROPER LIFTING TECHNIQUES ARE NOT USED.**

3. Raise saw and tilt back until front guard is clear of chassis. Remove front guard.
4. Perform mandatory shutdown procedure with saw at zero depth.
5. Access wheel to spindle bolts from front of chassis.
6. Torque to 220-250 lb.-ft.
7. Reinstall front cover.

## 4.6 TORQUE SPECIFICATIONS

**NOTE:** Unless otherwise specified, all bolts to be torqued as follows.

<b>BOLT SIZE</b>	<b>TORQUE (lb.-ft.)</b>
<b>1/4-20 UNC</b>	<b>8</b>
<b>5/16-18 UNC</b>	<b>17</b>
<b>3/8-16 UNC</b>	<b>30</b>
<b>7/16-14 UNC</b>	<b>50</b>
<b>1/2-13 UNC</b>	<b>75</b>
<b>1/2-20 UNF</b>	<b>90</b>
<b>5/8-11 UNC</b>	<b>150</b>
<b>3/4-10 UNC</b>	<b>260</b>
<b>7/8-9 UNC</b>	<b>430</b>
<b>1-8 UNC</b>	<b>640</b>
<b>1 1/8-7 UNC</b>	<b>800</b>

## RS18 SPECIFICATIONS

<i>RS18</i>	
Cutting Depth (in)	18
Cutting Width	0 TO 6
Min. Hydraulic Flow (gpm)	24
Max. Hydraulic Flow (gpm)	42
Minimum Pressure (psi)	2000
Maximum Pressure (psi)	5000
Side shift Travel (in)	26
Approximate Weight (lb.)	1520 (NOTE A)

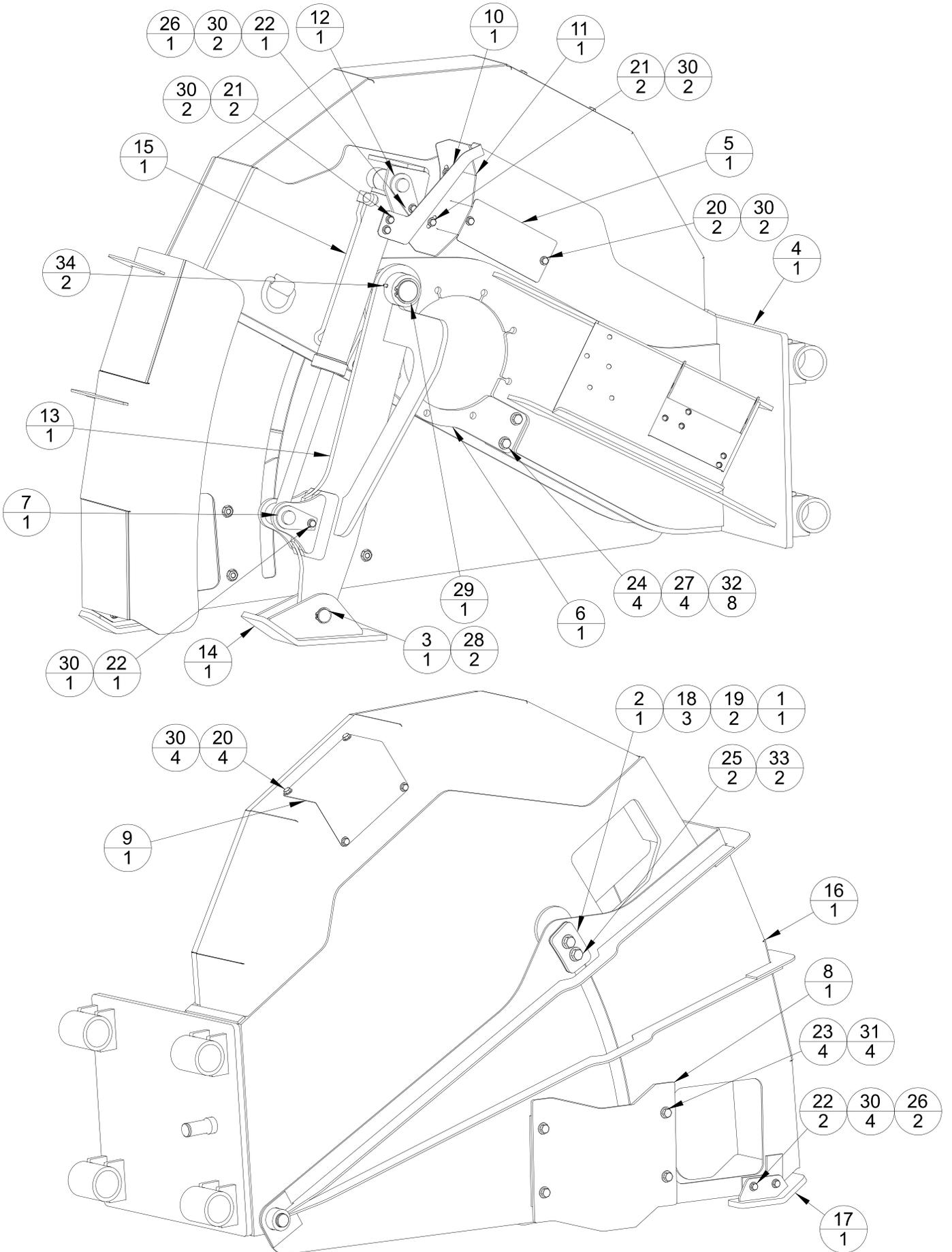
NOTE A: WITHOUT WHEEL

3.0" WIDE WHEEL WEIGHT: 396 lb.

4.5" WIDE WHEEL WEIGHT: 450 lb.

6.0" WIDE WHEEL WEIGHT: 511 lb.

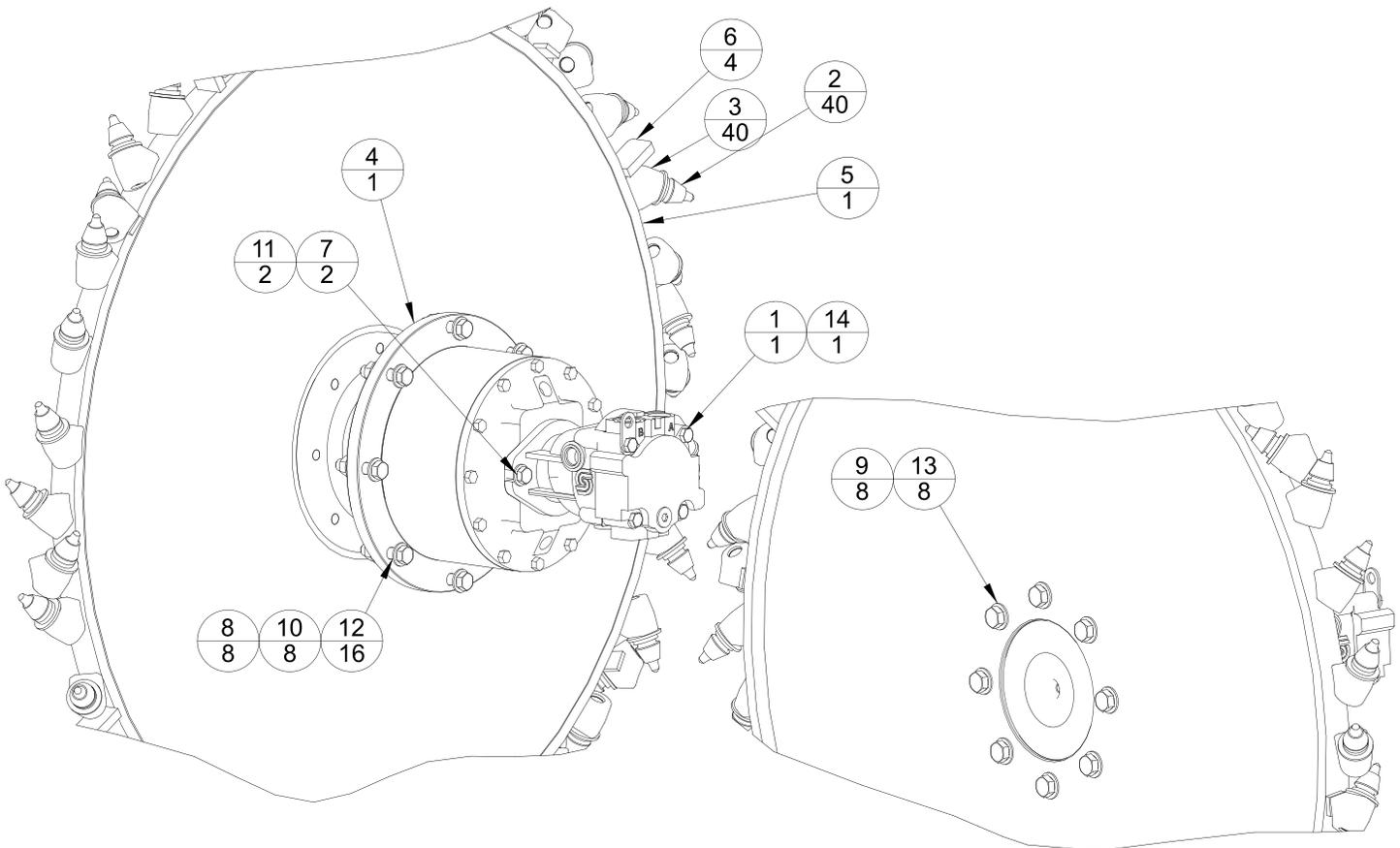
# CHASSIS PARTS



## CHASSIS PARTS

ITEM	QTY	PART NO.	DESCRIPTION
1	1	106-1046	PLATE, SPACER
2	1	106-1047	PLATE, CHASSIS RETAINER
3	1	106-1880	PIN, DEPTH CYLINDER
4	1	106-4421	WELDMENT, CHASSIS
5	1	106-4449	PLATE, CHASSIS COVER
6	1	106-4450	PLATE, PLANETARY SUPPORT
7	1	106-4454	WELDMENT, DEPTH CYLINDER PIN
8	1	106-4465	PLATE, DEBRIS DEFLECTOR
9	1	106-4478	PLATE, CHASSIS COVER
10	1	106-4508	PLATE, DEPTH GAGE
11	1	106-4509	PLATE, DEPTH GAGE
12	1	106-4611	WELDMENT, DEPTH CYLINDER PIN
13	1	106-4613	WELDMENT, DEPTH ARM
14	1	106-4620	WELDMENT, DEPTH ARM SKID
15	1	106-4623	WELDMENT, DEPTH CYLINDER (SEAL KIT: SO-0417)
16	1	106-4624	WELDMENT, SIDE COVER
17	1	106-4632	WELDMENT, SIDE COVER STEEL
18	3	106-4641	PLATE, CHASSIS SPACER
19	2	106-4642	PLATE, CHASSIS SPACER (PLASTIC)
20	6	HB038L0050A	BOLT, 3/8-16 X 0.50 PLATED
21	4	HB038L0075A	BOLT, 3/8-16 X 0.75 PLATED
22	4	HB038L0125A	BOLT, 3/8-16 X 1.25 PLATED
23	4	HB050L0100A	BOLT, 1/2-13 x 1.00 PLATED
24	4	HB056L0250A	BOLT, PLATED 9/16-12 X 2.50
25	2	HB063L0175A	BOLT, 5/8-11 X 1.75 PLATED
26	3	HN038A	NUT, 3/8-16 PLATED
27	4	HN056A	NUT, 9/16-12 PLATED
28	2	HRRE125A	RETAINING RING, EXTERNAL 1.25" DIA.
29	1	HRRE200A	RETAINING RING-EXTERNAL 2.00"
30	17	HW038NA	WASHER, 3/8 NARROW PLATED
31	4	HW050NA	WASHER, 1/2 NARROW PLATED
32	8	HW056NA	WASHER, 9/16 NARROW PLATED
33	2	HW063NA	WASHER, 5/8 NARROW PLATED
34	2	HZ001	ZERK, 1/4-28 STRAIGHT

# DRIVETRAIN PARTS



ITEM	QTY	3.0" WHEEL PART NO.	4.50" WHEEL PART NO.	6.00" WHEEL PART NO.	
1	1	106-0971	106-0971	106-0971	MOTOR, HYDRAULIC PISTON (NOTE C)
2	NOTE A	106-0831	106-0831	106-0831	PICK, ASPHALT ROCKET FIN (CONCRETE PICK: 106-0832)
3	NOTE A	106-0927	106-0927	106-0927	HOLDER, PICK
4	1	106-4420	106-4420	106-4420	PLANETARY GEARBOX, RW18 (NOTE B) (SEAL KIT: S0-0418)
5	1	106-4476	106-4472	106-4467	WELDMENT, WHEEL RW18-3.0 WITH PICKS & HOLDERS
6	4	106-4490	106-4491	106-4492	PLATE, RW18 DEBRIS PADDLE
7	2	HB050L0100B	HB050L0100B	HB050L0100B	BOLT, 1/2-20 x 1.00 PLATED
8	8	HB056L0250A	HB056L0250A	HB056L0250A	BOLT, PLATED 9/16-12 X 2.50
9	8	HB063L0150A	HB063L0150A	HB063L0150A	BOLT, 5/8-11 X 1.50 PLATED
10	8	HN056A	HN056A	HN056A	NUT, 9/16-12 PLATED
11	2	HW050NA	HW050NA	HW050NA	WASHER, 1/2 NARROW PLATED
12	16	HW056NA	HW056NA	HW056NA	WASHER, 9/16 NARROW PLATED
13	8	HW063NA	HW063NA	HW063NA	WASHER, 5/8 NARROW PLATED
14	1	OR2-242A	OR2-242A	OR2-242A	SEAL, O-RING 2-242

NOTE A : ITEMS 2 & 3 VARY IN QUANTITY AS FOLLOWS

3.0" WHEEL - QUANTITY 30

4.5" WHEEL - QUANTITY 48

6.0" WHEEL - QUANTITY 60

NOTE B: FOR REPAIR INSTRUCTIONS, CONSULT FACTORY.

NOTE C: PARTIAL MOTOR PARTS LIST:

MOTOR SEAL KIT: SO-0078

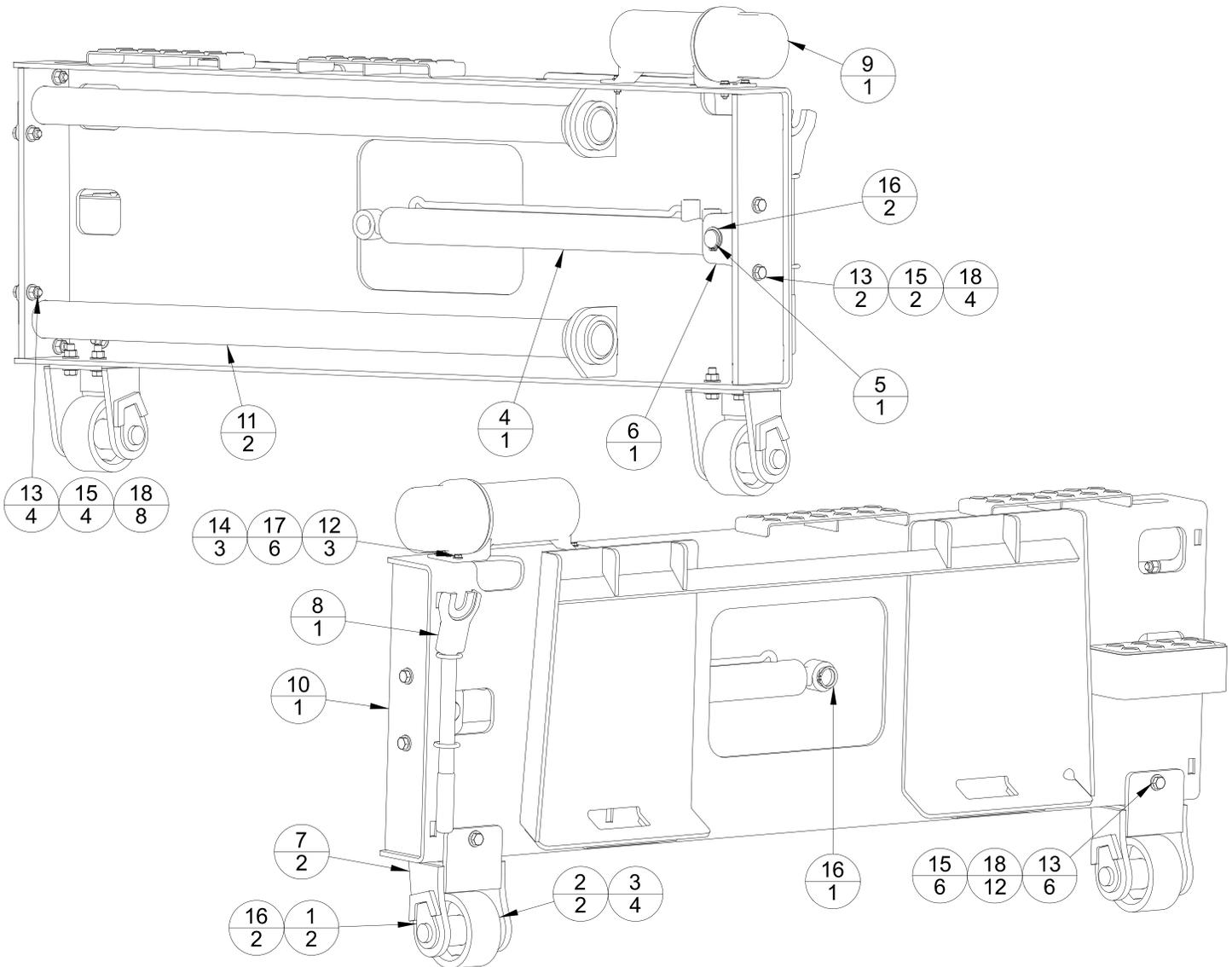
END PLATE GASKET: SO-0079

SHAFT SEAL: SO-0222

SHAFT SEAL WASHER: SO-0221

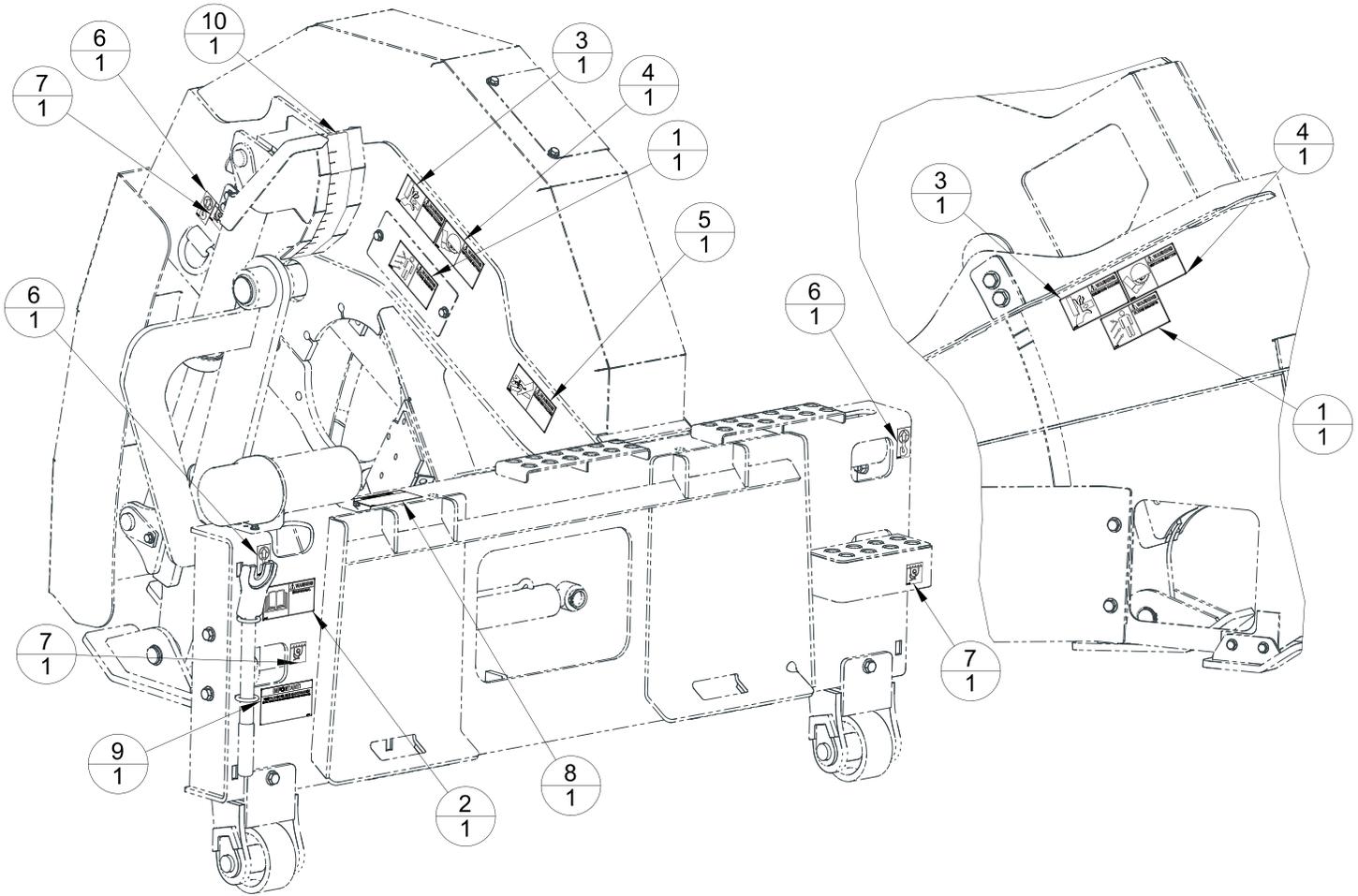
SHAFT SEAL RETAINING RING: SO-0221

## ATTACH PARTS



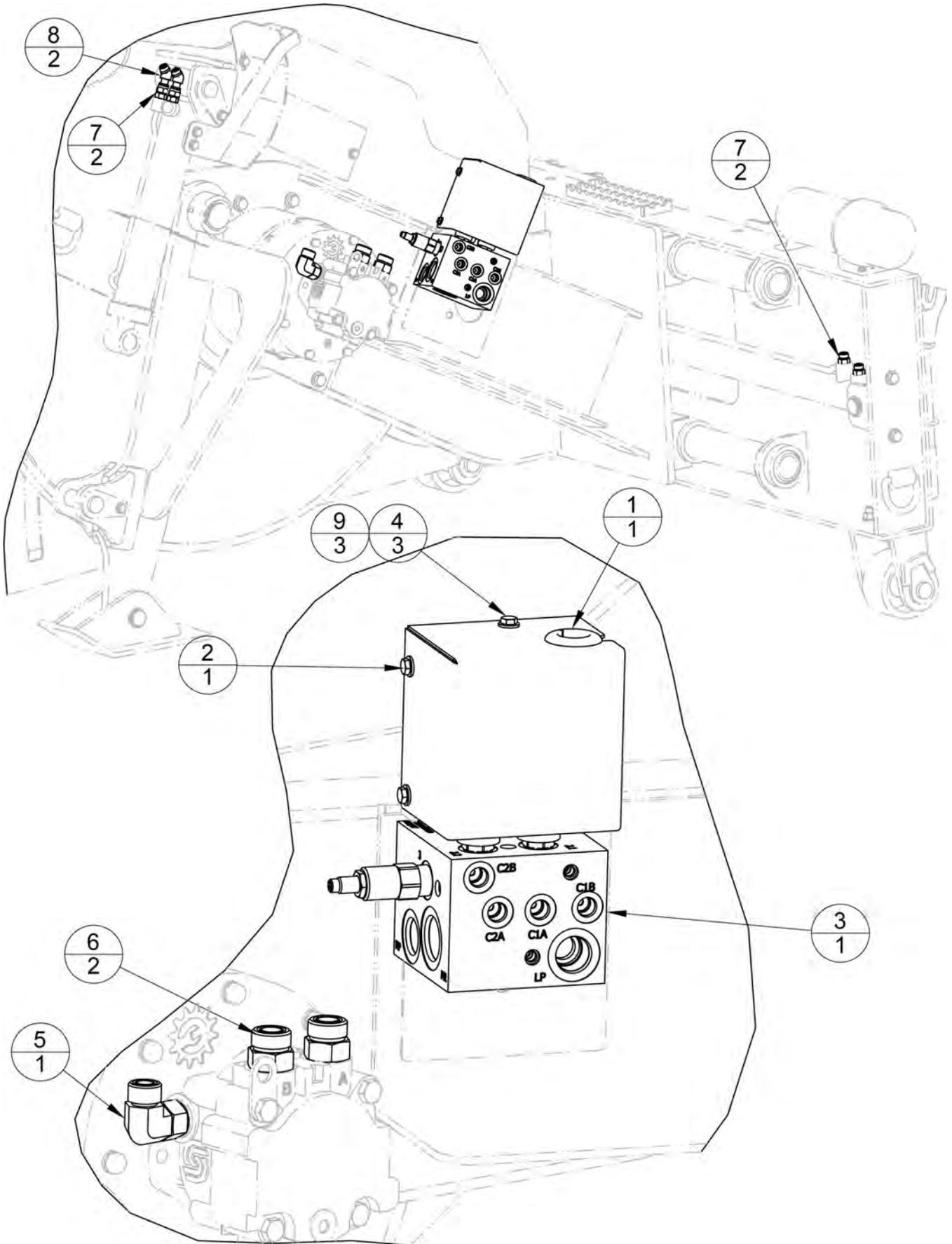
ITEM	QTY	PART NO.	DESCRIPTION
1	2	106-0500	WELDMENT, CHASSIS PIN
2	2	106-0504	WHEEL WELDMENT
3	4	106-0585	BEARING, DU 1.25 PIN X 1.25 WIDTH
4	1	106-0657	CYLINDER, SIDE SHIFT (SEAL KIT:SO-0013)
5	1	106-0790	PIN, SIDE SHIFT / LF JACK
6	1	106-0813	PLATE, CYLINDER BRACKET
7	2	106-1211	WELDMENT, WHEEL BRACKET
8	1	106-4696	PICK TOOL, FORK STYLE
9	1	106-4323	TUBE, MANUAL STORAGE
10	1	106-4635	WELDMENT, ATTACH
11	2	106-4639	WELDMENT, SIDE SHIFT ROD
12	3	HB025L0100A	BOLT, 1/4-20 X 1.00 PLATED
13	12	HB050L0175A	BOLT, 1/2-13 x 1.75 PLATED
14	3	HN025A	NUT, 1/4-20 PLATED
15	12	HN050A	NUT, 1/2-13 PLATED
16	5	HRRE125A	RETAINING RING, EXTERNAL 1.25" DIA.
17	6	HW025NA	WASHER, 1/4 NARROW PLATED
18	24	HW050NA	WASHER, 1/2 NARROW PLATED

## DECAL PARTS



ITEM	QTY	PART NO.	DESCRIPTION
1	2	D0163	DECAL, FLYING OBJECTS
2	1	D0164	DECAL, READ MANUAL
3	2	D0165	DECAL, CRUSHING HAZARD
4	2	D0166	DECAL, ROTATING CUTTER
5	1	D0167	DECAL, INJECTION HAZARD
6	3	D0168	DECAL, LIFT POINT
7	3	D0169	DECAL, TIE DOWN
8	1	D0184	DECAL, CASE DRAIN INFORMATION
9	1	D0247	DECAL, TOOTH MAINTENANCE
10	1	D0288	DECAL, DEPTH INDICATOR

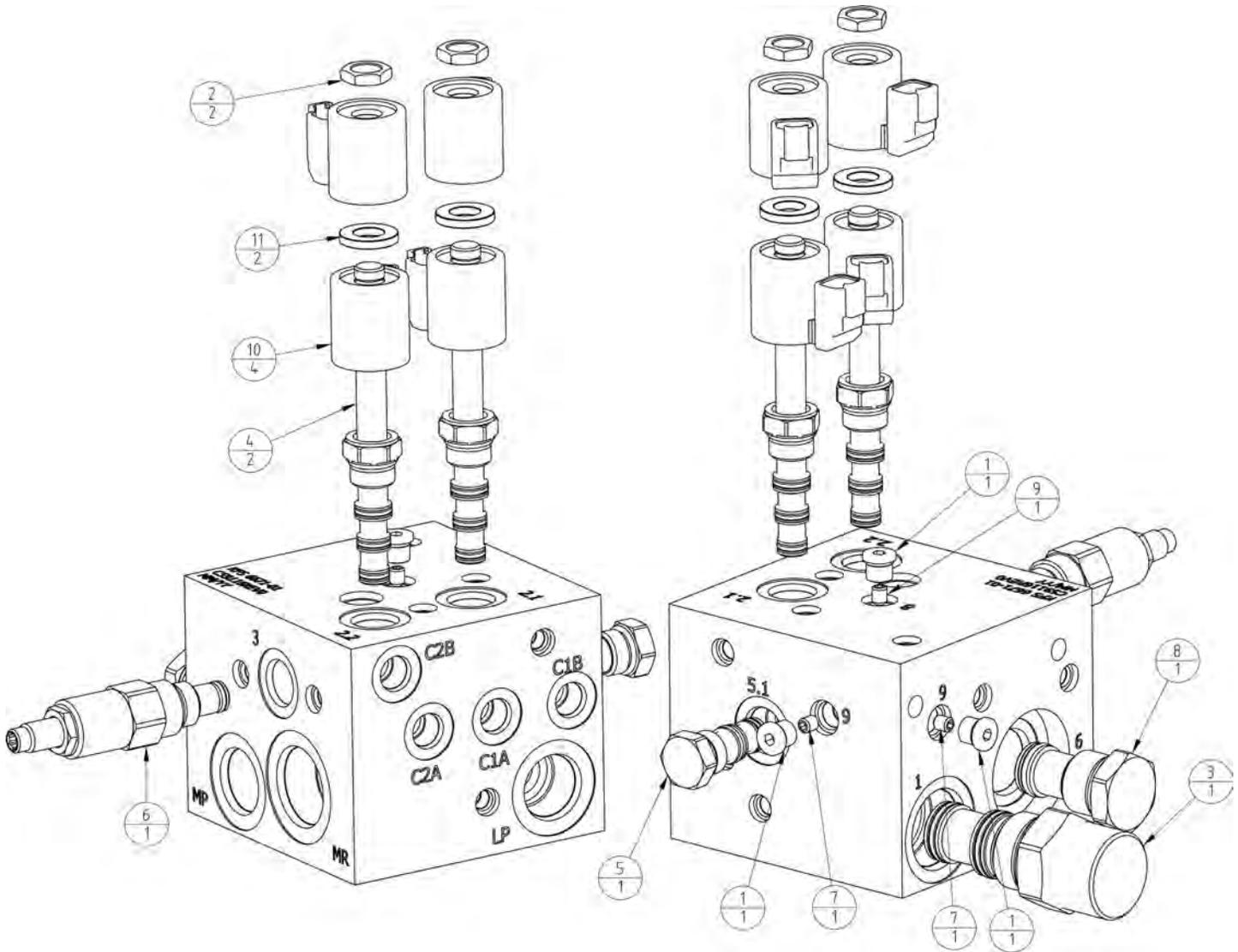
### 3 LINE HYDRAULIC PARTS (ALL 3 LINE SKID STEERS)



### 3 LINE HYDRAULIC PARTS (ALL 3 LINE SKID STEERS)

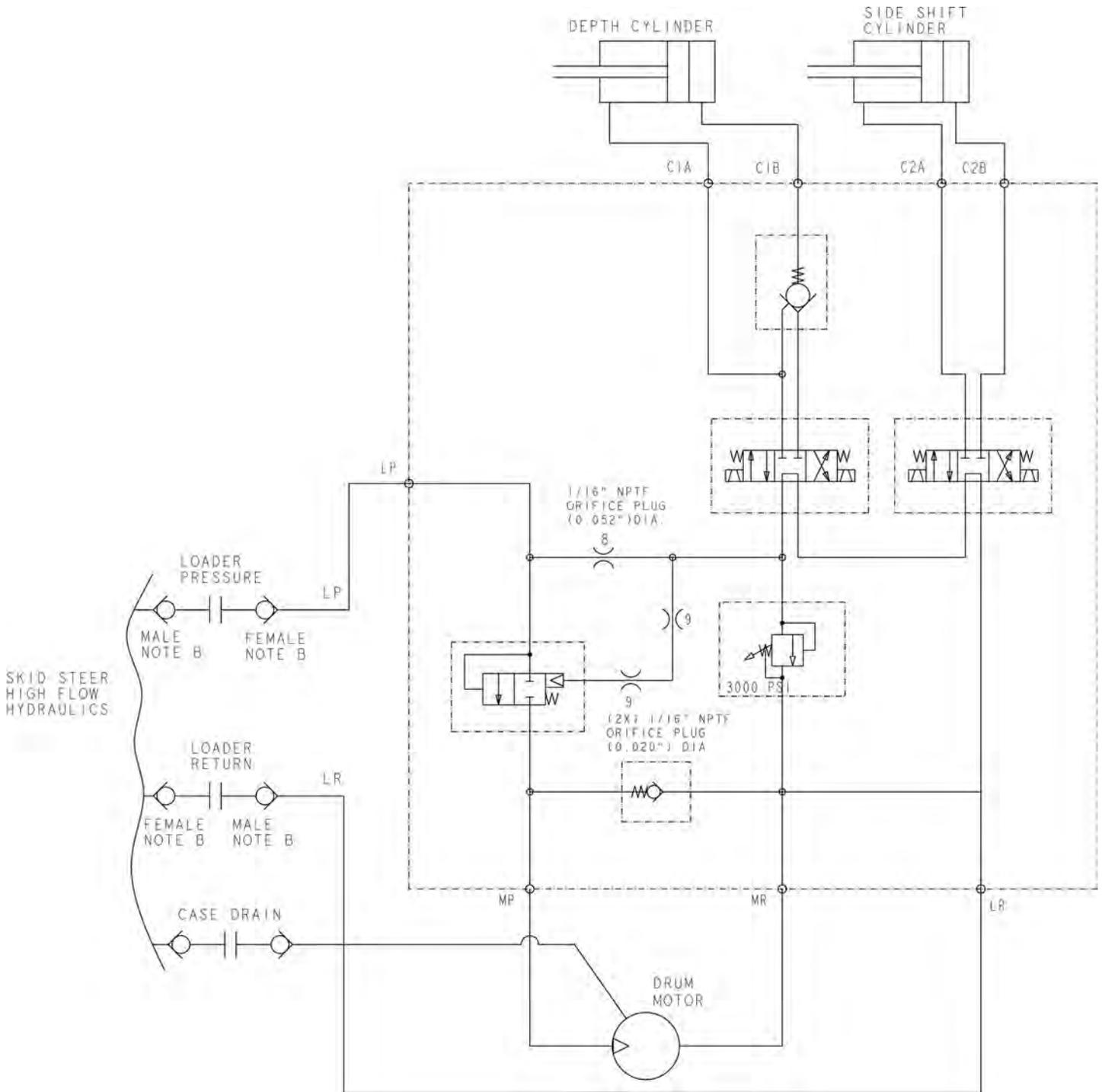
<i>ITEM</i>	<i>QTY</i>	<i>PART NO.</i>	<i>DESCRIPTION</i>
1	1	106-1489	GROMMET
2	1	106-6469	PLATE, SOLENOID COVER
3	1	106-6840	ASSEMBLY, VALVE 3 LINE 2 FUNCTION
4	3	HB025L0075A	BOLT, 1/4-20 X 0.75 PLATED
5	1	HF10C5OLO	FITTING, ELBOW 90 10 ORFS, 10 STOR
6	1	HF12-16F5OLO	FITTING, STRAIGHT 12ORFS 16SAE-ORB
7	1	HF12_16C5OLO	FITTING, 90 DEG. ELBOW 12ORFS 16 STOR
8	4	HF12F5OLO	FITTING, STRAIGHT 12 ORFS 12 STOR
9	8	HF6F5OLO	FITTING, STRAIGHT 6ORFS 6ORB
10	2	HF6V6LO	FITTING, 45 ELBOW 6ORFS X 6ORFS
11	3	HW025NA	WASHER, 1/4 NARROW PLATED

# 106-6840 ASSEMBLY, VALVE 3 LINE (ALL 3 LINE SKID STEERS)



ITEM	QTY	PART NO.	DESCRIPTION
1	3	HF4HP50N	PLUG, 4 SAE-ORB RECESSED HEX
2	2	S0-0022	NUT, COIL SIZE 8 & 10
3	1	S0-0539	CARTRIDGE, PILOTED DIRECTIONAL (SEAL KIT:S0-0543)
4	2	SO-0020	CARTRIDGE, SOLENOID VALVE (SEAL KIT:S0-0182)
5	1	SO-0054	CARTRIDGE, CHECK (SEAL KIT:S0-0405)
6	1	SO-0540	CARTRIDGE, RELIEF (SEAL KIT:S0-0182)
7	2	SO-0542	PLUG, ORIFICE (0.02 in)
8	1	SO-0547	CARTRIDGE, CHECK VALVE (SEAL KIT:S0-0552)
9	1	SO-0553	PLUG, ORIFICE (0.052 in)
10	4	SO-0558	COIL, SIZE -08 TYPE D
11	2	SO-0559	SPACER, SOLENOID SIZE -8 TYPE D

### 3 LINE HYDRAULIC SCHEMATIC (ALL 3 LINE SKID STEERS)



NOTE B: ALL LOADERS EXCEPT BOBCAT, BOBCAT REVERSED

## ELECTRICAL PARTS (NO ILLUSTRATIONS)

**NOTE: ROADSAWS DO NOT HAVE A TILT FUNCTION, TILT CYLINDER WIRING IS NOT USED AND THESE CONNECTIONS ARE LEFT UNPLUGGED.**

### 3 LINE WIRING HARNESS INFORMATION

The following harnesses connect directly to the 4 solenoids. Note that each harness has six connectors, but only 4 are used on a Road saw.

#### SKID STEER MODEL

BOBCAT A, S and T SERIES (3 LINE)  
 CATERPILLAR D SERIES & LATER (3 LINE)  
 CASE 400 SERIES & LATER (3 LINE)  
 GEHL (3 LINE)  
 JCB (3 LINE)  
 JOHN DEERE A, B C SERIES (3 LINE)  
 JOHN DEERE D SERIES & LATER (3 LINE)  
 KUBOTA  
 NEW HOLLAND ( 3 LINE )  
 VOLVO (3 LINE)

#### HARNESS #

106-3336 Assembly ( 3 components, see below )  
 106-4947  
 106-0647  
 106-0647  
 106-0647  
 106-1326  
 106-4587  
 106-0647  
 106-0647  
 106-0647

### LOADER HARNESS SERVICE PARTS

<b>HARNESS #</b>	<b>LOADER SIDE CONNECTOR</b>	<b>LOADER SIDE SOCKET</b>	<b>LOADER SIDE TOOL</b>	<b>VALVE SIDE CONNECTOR</b>	<b>VALVE SIDE SOCKET</b>	<b>VALVE SIDE WEDGE</b>	<b>DIODE BOARD #</b>
106-0647	SO-0030 (14 PIN)	SO-0032	SO-0048 (BLUE)	SO-0031	SO-0032	SO-0034	SO-0264
106-0749	SO-0037 (8 PIN)	SO-0038	SO-0049 (GREEN)	SO-0031	SO-0032	SO-0034	SO-0324
106-0934	SO-0030 (14 PIN)	SO-0032	SO-0048 (BLUE)	SO-0031	SO-0032	SO-0034	SO-0324
106-1326	SO-0030 (14 PIN)	SO-0032	SO-0048 (BLUE)	SO-0031	SO-0032	SO-0034	SO-0264
106-4587	SO-0030 (14 PIN)	SO-0032	SO-0048 (BLUE)	SO-0031	SO-0032	SO-0034	SO-0264
106-4947	SO-0030 (14 PIN)	SO-0032	SO-0048 (BLUE)	SO-0031	SO-0032	SO-0034	SO-0264

### BOBCAT A, S and T Series WIRING HARNESS INFORMATION

106-3336 ASSEMBLY FOR BOBCAT A, S AND T SERIES

106-1033 HARNESS: CONNECTS ACD COMPUTER TO SKID STEER LOADER

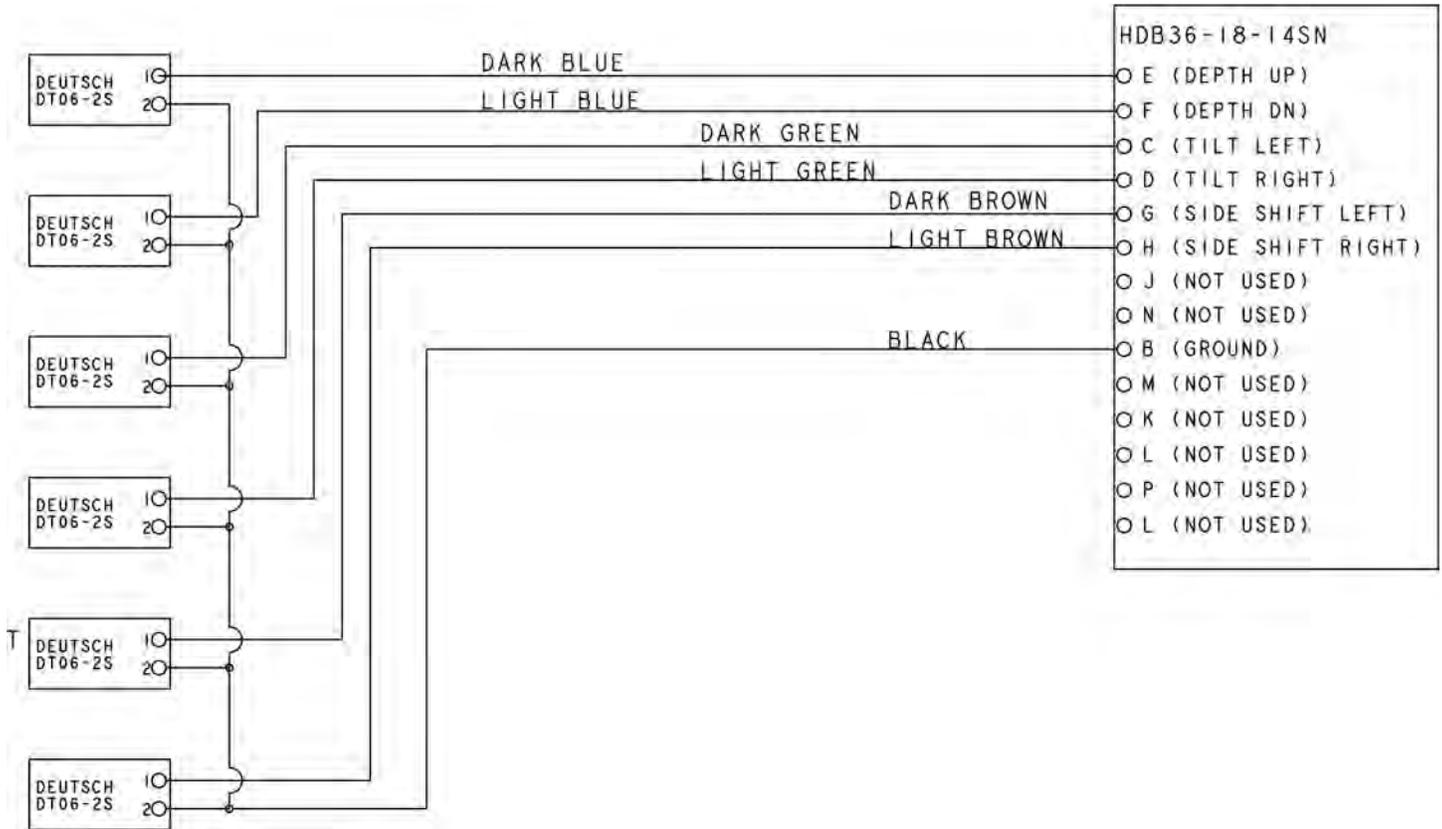
106-1031 ACD: COMPUTER (MOUNTED ON ROAD SAW)

106-1032 HARNESS: CONNECTS JUMPER WIRES TO ACD

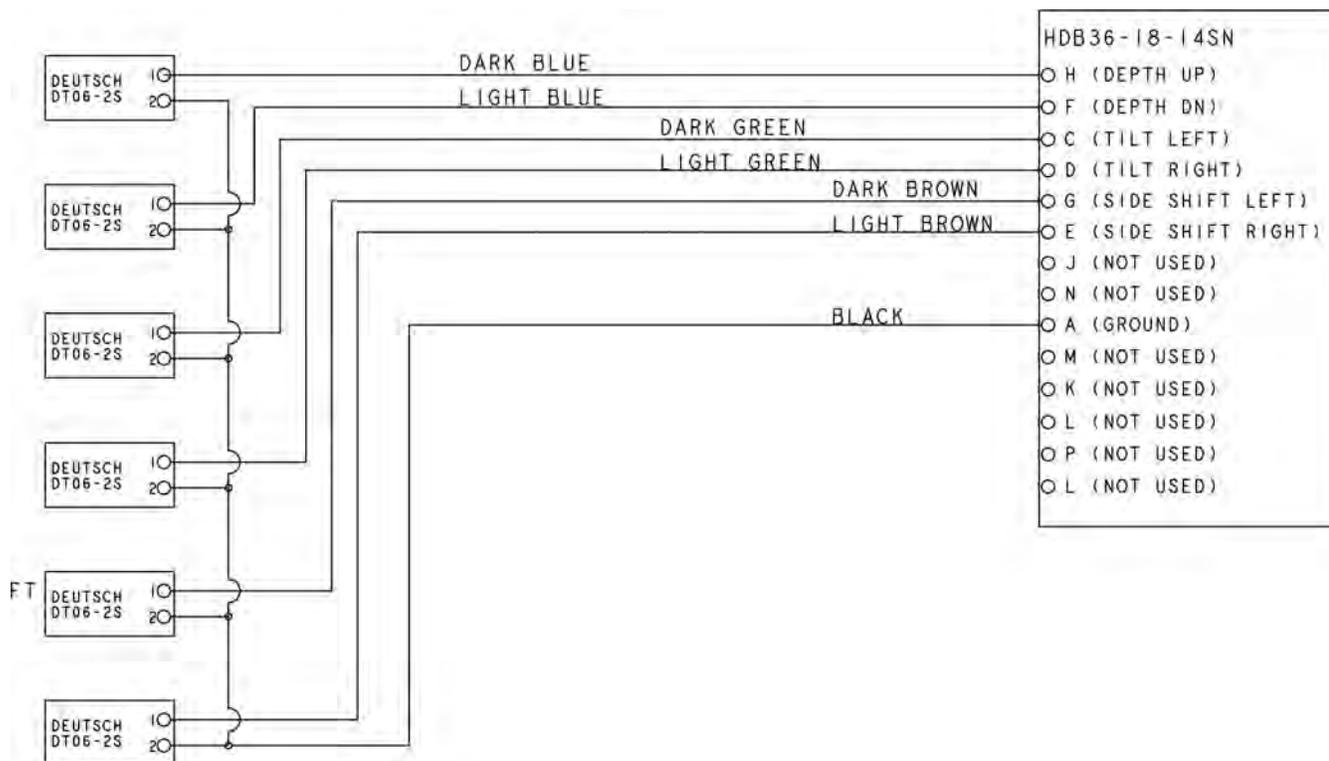
106-1217 JUMPER WIRE: CONNECTS 106-1032 HARNESS TO 106-6340 ADAPTER HARNESS.(4 REQUIRED)

CONNECT 106-1032 HARNESS TO 106-6340 JUMPER ADAPTER HARNESS BY MATCHING ZIP TIE COLORS.

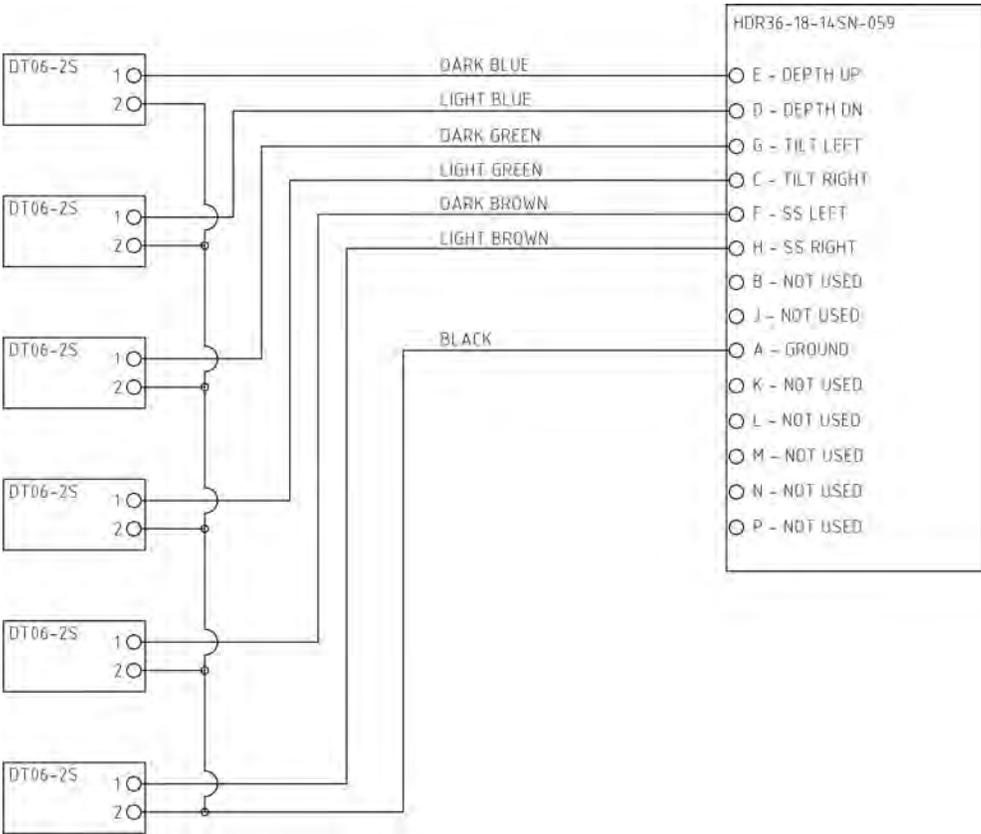
### 3 LINE ELECTRICAL SCHEMATIC (HARNESS NUMBER 106-0647)



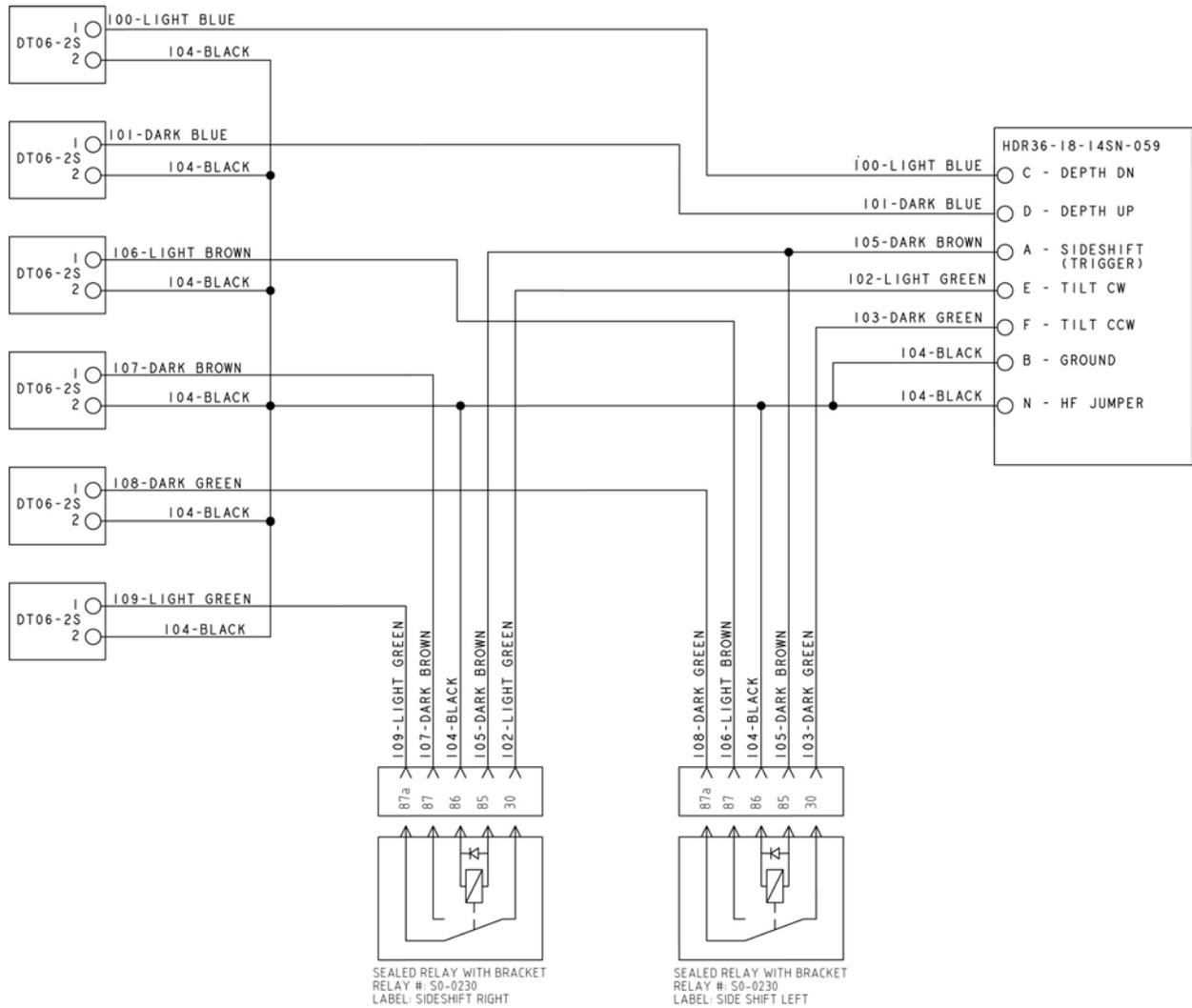
### 3 LINE ELECTRICAL SCHEMATIC (HARNESS NUMBER 106-1326)



# CP18, CP24, CP30 & CP40 3 LINE ELECTRICAL SCHEMATIC (HARNESS NUMBER 106-4587)



# CP18, CP24, CP30 & CP40 3 LINE ELECTRICAL SCHEMATIC (HARNESS NUMBER 106-4947)





PO Box 982, 807 McKay Ave S.  
Alexandria, MN 56308  
Toll Free: 877-378-4642  
[www.skidpro.com](http://www.skidpro.com)

## SKID PRO WARRANTY

Skid Pro warrants above attachments for twelve months from date of shipment to the original owner. Warranty covers products to be free from defects in material and workmanship when properly set up and operated in accordance with Skid Pro's recommendations.

### WARRANTY CLAIM PROCEDURE

All warranty claims must be submitted within the manufacturer's limited warranty period. Pictures and/or a video as well as a detailed description of the events leading up to the failed component(s) are required to properly document all potential warranty claims. To submit a warranty claim, contact your Skid Pro Product Guru or complete a [Warranty Claim Form](#) on our website and send it along with supporting pictures/video to [sales@skidpro.com](mailto:sales@skidpro.com). A valid credit card is required to be on file with Skid Pro to begin processing a warranty claim. No warranty claim will be processed without a valid credit card on file. Upon receipt, the warranty claim information will be reviewed and once determined to be a valid claim, a return authorization number will be issued for the return of the defective part(s) if applicable and replacement part(s) will be shipped. If it is determined the defective parts are to be returned and they are not received by Skid Pro within 30 days of receiving the replacement parts, the buyer's credit card on file will be charged for the cost of the replacement parts plus any shipping charges. Tampering with the failed part (i.e. disassembling a motor or cylinder) will void the warranty.

### EXCLUSIONS OF WARRANTY

Skid Pro's requirement for any issue with respect to attachments shall be limited to repairing or replacing the defective part, as this is a parts-only warranty and does not include labor to replace or install the part, interest accrued or payments made for financing, or downtime from resulting issue. Skid Pro has full technical support to assure customer replaces the part properly.

This warranty shall not apply to any attachment's wear items, or attachments that have been repaired or altered outside the Skid Pro factory in any way, or that has been subject to misuse, negligence, or accident beyond Skid Pro's recommended use and/or machine rated capacity.

This warranty is exclusive and in lieu of all other warranties and conditions. Skid Pro disclaims all other warranties and conditions, express or implied, including any implied warranties or conditions of merchantability or fitness for a particular purpose. In no event shall Skid Pro be liable for any special, incidental, indirect or consequential damage, whatsoever, including, but not limited to, loss or interruption of business, lost profits, or loss of machine use, whether based on contract, warranty, tort, negligence, strict liability, statute or otherwise, even if Skid Pro has been advised of the possibility of such damages.

Hoses and couplers are tested on the attachment prior to shipment and are excluded from the warranty. It is the responsibility of the operator to ensure adequate clearance and hose routing as each carrier machine differs and improper routing can lead to hose damage and premature failure. If hose length is an issue due to the style or type of carrier machine, it is the responsibility of the end user to source correctly sized hoses as they are outside of the normal distribution of carrier machines within the industry.

No agent, employee, or representative of Skid Pro has any authority to bind said company to any affirmation, representation, or warranty concerning its machinery and/or attachments except as specifically set forth herein. Any disagreement or dispute of warranty policy or customer expectations of product, soundness, functionality, or performance would take place in Douglas County, Alexandria, MN, where Skid Pro operates.