

# **SNOWPLOWS**



## **Models 810SS & 8611SS POWER PLOW® Snowplows Installation Instructions & Owner's Manual**

**⚠ CAUTION**

See your BLIZZARD® sales outlet/Web site for specific vehicle application recommendations before installation. The Undercarriage Selection Guide has specific vehicle and snowplow requirements.

**⚠ CAUTION**

Read this document before installing the snowplow.

**⚠ CAUTION**

Read this document before operating or servicing snowplow.

This manual supersedes all editions with an earlier date.

## PREFACE

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Congratulations on purchasing the most advanced skid steer snowplow available! The POWER PLOW® snowplow is clearing new trails for innovative design, rugged durability, quality craftsmanship and superior performance. Our innovative products are tested all over the snowbelt.

This manual provides safety, operation and maintenance information for your new BLIZZARD® snowplow. To keep your snowplow in good condition, read and understand this manual and follow its recommendations. Failure to do so may affect your warranty coverage.

When service is necessary, your local BLIZZARD distributor knows your snowplow best. Contact your BLIZZARD outlet for maintenance, service or any other assistance you require.

If you have not already done so, please visit [www.blizzardplows.com](http://www.blizzardplows.com) to register your new POWER PLOW snowplow!

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# SAFETY

## SAFETY DEFINITIONS

### **⚠ WARNING**

Indicates a potentially hazardous situation, that if not avoided, could result in death or serious personal injury.

### **⚠ CAUTION**

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

**NOTE:** Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

## WARNING/CAUTION & INSTRUCTION LABELS

Become familiar with and inform users about the warning and instruction labels on the back of the blade.

**NOTE:** If labels are missing or cannot be read, see your sales outlet.

MOUNT INSTRUCTIONS Read Owner's Manual for Complete Instructions.	DISMOUNT INSTRUCTIONS Read Owner's Manual for Complete Instructions.
<p><b>⚠ WARNING:</b> Keep fingers away from snowplow and skid steer mounting points. Follow skid steer labeling and owner's manual.</p>	
<ul style="list-style-type: none"> <li>Position the skid steer close to the snowplow and align the mount points on the skid steer plate with the snowplow attachment plate.</li> <li>Tilt the skid steer plate forward and position the top edge of the plate under the receiving pocket on the top edge of the snowplow attachment plate.</li> <li>Slowly raise the arms on the skid steer and tilt the skid steer plate toward the cab until the snowplow attachment plate is flush with the skid steer plate. Turn the engine OFF.</li> <li>Engage both locking levers on the skid steer by rotating each handle 90° into a horizontal position. The skid steer locking levers shall insert into the snowplow lever receiving holes.</li> <li>Attach all hydraulic hoses on the snowplow to the auxiliary hydraulic connections located on the skid steer. On some skid steer models, it may be necessary to install an auxiliary hydraulic switch on the skid steer prior to operating the snowplow.</li> <li>Connect the snowplow wire harness to either the pistol grip control or auxiliary electrical connection on the skid steer.</li> </ul>	<ul style="list-style-type: none"> <li>Lower the snowplow on a flat, level surface and turn the engine OFF.</li> <li>Disconnect the snowplow wire harness from the skid steer.</li> <li>Disconnect all hydraulic levers on the snowplow from the auxiliary hydraulic connections located on the skid steer.</li> <li>Disengage both locking levers on the skid steer by rotating each handle 90° into a vertical position. The skid steer locking levers shall withdraw from the snowplow lever receiving holes.</li> <li>Turn the engine ON. Slowly lower the arms on the skid steer and tilt the skid steer plate forward away from the cab until the top edge of the skid steer plate clears the receiving pocket on the top edge of the snowplow attachment plate.</li> <li>Back the skid steer away slowly.</li> </ul>
<small>U.S. Patents 5,638,818, 5,899,007, 6,178,668, 6,278,076, 6,393,737, 6,408,549, 6,412,199, 6,442,877, 6,815,513, CAN Patents 2,194,322, 2,220,783, 2,259,008, 2,358,145, 2,358,354, 2,466,100, and other patents pending.</small>	

### **⚠ WARNING**

LOWER BLADE WHEN VEHICLE IS PARKED.

DO NOT EXCEED GVWR OR GAWR INCLUDING BLADE AND BALLAST.

REMOVE BLADE ASSEMBLY BEFORE PLACING VEHICLE ON HOIST.

### **⚠ CAUTION**

READ OWNER'S MANUAL BEFORE OPERATING OR SERVICING SNOWPLOW.

TRANSPORT SPEED SHOULD NOT EXCEED 45 MPH. FURTHER REDUCE SPEED UNDER ADVERSE TRAVEL CONDITIONS.

PLOWING SPEED SHOULD NOT EXCEED 10 MPH.

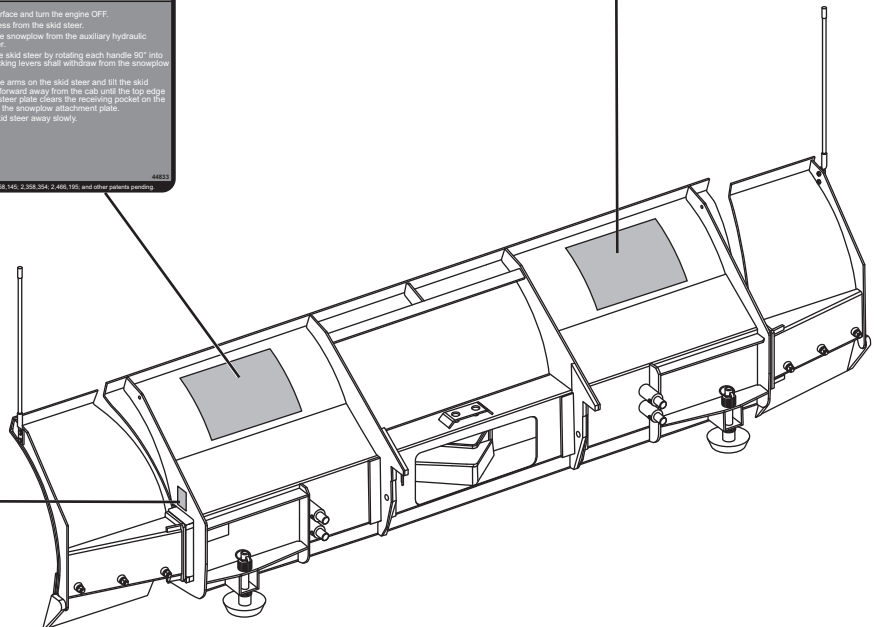
SEE YOUR SALES OUTLET/WEB SITE FOR SPECIFIC VEHICLE APPLICATION RECOMMENDATIONS.

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### **⚠ WARNING**

**Multiple Pinch Points**

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# SAFETY

## SAFETY PRECAUTIONS

Improper installation and operation could cause personal injury, and/or equipment and property damage. Read and understand labels and the Owner's Manual before installing, operating or making adjustments.

### **⚠ WARNING**

Lower blade when vehicle is parked. Temperature changes could change hydraulic pressure, causing the blade to drop unexpectedly or damaging hydraulic components. Failure to do this could result in serious personal injury.

### **⚠ WARNING**

The driver shall keep bystanders clear of the blade when it is being raised, lowered or angled. Do not stand between the vehicle and the blade or within 8 feet of a moving blade. A moving or falling blade could cause personal injury.

### **⚠ WARNING**

Do not exceed vehicle operative capacity including the blade. See vehicle rating label.

### **⚠ WARNING**

Never stand, work or reach under lift arms or lift cylinders without employing a lift arm stop or stand.

### **⚠ WARNING**

To prevent accidental movement of the blade, always turn the control OFF whenever the snowplow is not in use. The power indicator light will turn OFF.

### **⚠ CAUTION**

Read Owner's Manual before operating or servicing snowplow.

### **⚠ CAUTION**

Transport speed should not exceed vehicle manufacturer's recommendations. Further reduce speed under adverse travel conditions.

### **⚠ CAUTION**

Plowing speed should not exceed 10 mph.

## HYDRAULIC SAFETY

### **⚠ WARNING**

Hydraulic fluid under pressure can cause skin injection injury. If you are injured by hydraulic fluid, get medical attention immediately.

- Always inspect hydraulic components and hoses before using. Replace any damaged or worn parts immediately.
- If you suspect a hose leak, DO NOT use your hand to locate it. Use a piece of cardboard or wood.

## FUSES

The snowplow electrical and hydraulic systems contain several blade-style automotive fuses. If a problem should occur and fuse replacement is necessary, the replacement fuse must be of the same type and amperage rating as the original. Installing a fuse with a higher rating can damage the system and could start a fire. Fuse Replacement, including fuse ratings and locations, is located in the Maintenance Section of this Owner's Manual.

# SAFETY

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## PERSONAL SAFETY

- Remove ignition key and put the vehicle in park or in gear to prevent others from starting the vehicle during installation or service.
- Wear only snug-fitting clothing while working on your vehicle or snowplow.
- Do not wear jewelry or a necktie, and secure long hair.
- Wear safety goggles to protect your eyes from battery acid, gasoline, dirt and dust.
- Avoid touching hot surfaces such as the engine, radiator, hoses and exhaust pipes.
- Always have a fire extinguisher rated BC handy, for flammable liquids and electrical fires.

## FIRE AND EXPLOSION

### **⚠ WARNING**

**Gasoline is highly flammable and gasoline vapor is explosive. Never smoke while working on vehicle. Keep all open flames away from gasoline tank and lines. Wipe up any spilled gasoline immediately.**

Be careful when using gasoline. Do not use gasoline to clean parts. Store only in approved containers away from sources of heat or flame.

## CELL PHONES

A driver's first responsibility is the safe operation of the vehicle. The most important thing you can do to prevent a crash is to avoid distractions and pay attention to the road. Wait until it is safe to operate Mobile Communication equipment such as cell phones or two-way radios.

## VENTILATION

### **⚠ WARNING**

**Vehicle exhaust contains lethal fumes. Breathing these fumes, even in low concentrations, can cause death. Never operate a vehicle in an enclosed area without venting exhaust to the outside.**

## BATTERY SAFETY

### **⚠ CAUTION**

**Batteries normally produce explosive gases which can cause personal injury. Therefore, do not allow flames, sparks or lit tobacco to come near the battery. When charging or working near a battery, always cover your face and protect your eyes, and also provide ventilation.**

**Batteries contain sulfuric acid which burns skin, eyes and clothing.**

**Disconnect the battery before removing or replacing any electrical components.**

## NOISE

Airborne noise emission during use is below 70 dB(A) for the snowplow operator.

## VEHICLE APPLICATION INFORMATION

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### **⚠ CAUTION**

**See your BLIZZARD® outlet for specific vehicle application recommendations before installation. The Undercarriage Selection Guide has specific vehicle and snowplow requirements.**

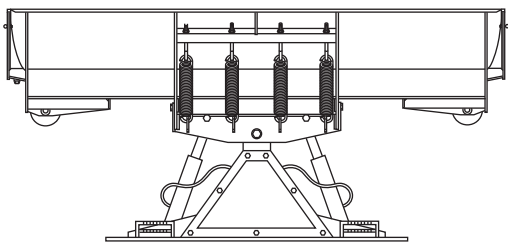
Vehicle application recommendations are based on the following:

- The vehicle with the snowplow installed must comply with applicable Federal Motor Vehicle Safety Standards (FMVSS).
- The vehicle with the snowplow installed must comply with the vehicle manufacturer's stated gross vehicle and axle weight ratings (found on the driver-side door cornerpost of the vehicle) and the front and rear weight distribution ratio. In some cases, rear ballast may be required to comply with these requirements.
- BLIZZARD Undercarriage Selection Guide is based on available vehicle capacity for snowplow equipment on a representative vehicle equipped with options commonly used for snowplowing and with 300 lb of front seat occupant weight.
- Weights of front seat occupants can be adjusted above 300 lb but vehicle with snowplow must not exceed vehicle GVWR or GAWR.
- In some cases there may be additional limitations and requirements.
- Installation, modification and addition of accessories must comply with published BLIZZARD recommendations and instructions. Available capacity decreases as the vehicle is loaded with cargo or other truck equipment or snowplow accessories are installed.
- If there is uncertainty as to whether available capacity exists, the actual vehicle as configured must be weighed.

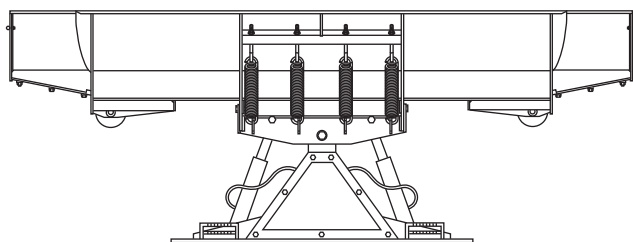
# OPERATION

Your POWER PLOW® snowplow is the most advanced and versatile snowplow on the market. The easy-to-use controls allow you to automatically adjust the snowplow blade and wings into an infinite number of plowing positions. Review the illustrations below to determine the best position for your plowing needs.

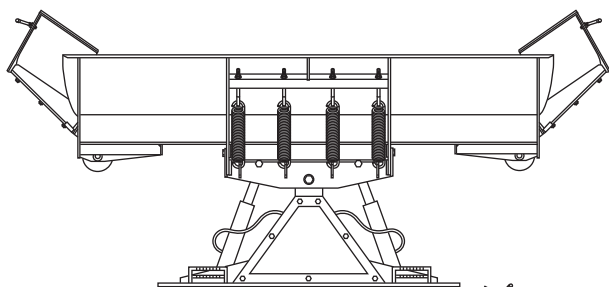
A.



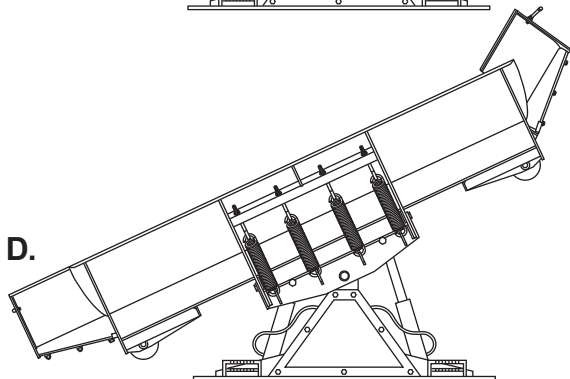
B.



C.



D.



## ⚠ WARNING

Never use the snowplow attachment to carry people, as a man lift or as a work platform.

## ⚠ WARNING

When plowing with down pressure, do not cause the front wheels on the skid steer/ tractor to raise above ground.

### A. Compact Position

(8' or 8'-6" Blade Width)

- Primary position when transporting the snowplow
- For use in heavy snow conditions with poor visibility, initial clearing and tight quarters
- *Ideal application: residential driveways, small roads*

### B. WIDE PASS™ Position

(10' or 11'-3" Blade Width)

- Primary position for clearing large surfaces
- For use in light snow conditions with good visibility, final clearing and clean-up
- *Ideal application: large parking lots, widening roadways*

### C. BUCKET BLADE™ Position

(9'-3" or 9'-10" Blade Width)

- Primary position for transporting snow
- For use in initial clearing with decent visibility, transporting large volumes of snow, final clean-up
- *Ideal application: roadway intersections*

### D. WIDE PASS Position Angled with Wing Forward

- Primary position for accelerated angled plowing
- For use in directional plowing, cornering, diverting snow away from objects or buildings
- *Ideal application: plowing adjacent to buildings, driveway/road intersections*



## UNPACKING & INSPECTION

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Your POWER PLOW® snowplow has been packaged to withstand transit and weather related damage. Fully inspect all components upon receipt of your snowplow. In the event of shipping damage or missing parts, immediately contact our Customer Service Department at 1-888-680-8600.

Begin unpacking and inspection in the following order:

1. Remove the shipping document from the end panel of the pallet wrap. Retain all documentation for your records.
2. All wood framing and polyethylene material should be removed from the pallet for easy access to the snowplow.
3. Due to the odd shaped components and size of several assembly parts, various cable ties and corrugated material are used for scratch resistance and package orientation. Please remove these items prior to assembly.
4. Place the main blade assembly on a flat, level surface.

Once you have inspected all parts and removed all packaging materials, your snowplow is ready to be fully assembled.

**Retain this information for your records.**

**Date of Purchase:** \_\_\_\_\_

**Dealer/Distributor:** \_\_\_\_\_

**Dealer Phone Number:** \_\_\_\_\_

**Snowplow Serial Number:** \_\_\_\_\_

***Register your snowplow online at  
[www.blizzardplows.com](http://www.blizzardplows.com).***

# TORQUE SPECIFICATIONS

## TORQUE CHART

**⚠ CAUTION**

Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to the torque chart. Use standard methods and practices when attaching snowplow including proper personal protective safety equipment.



Grade Identification for J429–Grade 5 Bolt



Grade Identification for J429–Grade 8 Bolt

SAE J429 Grade 5 Torque Values				SAE J429 Grade 8 Torque Values			
Nominal Thread Size	Clamp Loads (lb)	Tightening Torque		Nominal Thread Size	Clamp Loads (lb)	Tightening Torque	
		"Lubricated"	"Dry"			"Lubricated"	"Dry"
1/4-20	2,000	6 ft-lb	8 ft-lb	1/4-20	2,850	9 ft-lb	12 ft-lb
5/16-18	3,350	13 ft-lb	18 ft-lb	5/16-18	4,700	18 ft-lb	25 ft-lb
3/8-16	4,950	23 ft-lb	31 ft-lb	3/8-16	6,950	32 ft-lb	44 ft-lb
7/16-14	6,800	37 ft-lb	50 ft-lb	7/16-14	9,600	53 ft-lb	70 ft-lb
1/2-13	9,050	57 ft-lb	75 ft-lb	1/2-13	12,800	80 ft-lb	107 ft-lb
9/16-12	11,600	82 ft-lb	109 ft-lb	9/16-12	16,400	115 ft-lb	154 ft-lb
5/8-11	14,500	113 ft-lb	151 ft-lb	5/8-11	20,300	159 ft-lb	211 ft-lb
3/4-10	21,300	200 ft-lb	266 ft-lb	3/4-10	30,100	282 ft-lb	376 ft-lb
7/8-9	29,435	321 ft-lb	430 ft-lb	7/8-9	41,550	454 ft-lb	606 ft-lb
1-8	38,600	482 ft-lb	640 ft-lb	1-8	54,540	680 ft-lb	900 ft-lb



8.8 Grade Identification for Metric–Grade 8.8 Bolt



10.9 Grade Identification for Metric–Grade 10.9 Bolt

Metric Class 8.8 Torque Values				Metric Class 10.9 Torque Values			
Diameter (mm)	Clamp Loads (lb)	Tightening Torque		Diameter (mm)	Clamp Loads (lb)	Tightening Torque	
		"Lubricated"	"Dry"			"Lubricated"	"Dry"
5	1,389	3 ft-lb	5 ft-lb	5	1,987	5 ft-lb	7 ft-lb
6	1,965	6 ft-lb	8 ft-lb	6	2,812	8 ft-lb	11 ft-lb
7	2,826	10 ft-lb	13 ft-lb	7	4,044	14 ft-lb	19 ft-lb
8	3,579	14 ft-lb	19 ft-lb	8	5,121	20 ft-lb	27 ft-lb
10	5,672	28 ft-lb	37 ft-lb	10	8,116	40 ft-lb	53 ft-lb
12	8,243	49 ft-lb	65 ft-lb	12	11,796	70 ft-lb	92 ft-lb
14	11,246	77 ft-lb	103 ft-lb	14	16,092	111 ft-lb	148 ft-lb
16	15,882	125 ft-lb	167 ft-lb	16	21,970	173 ft-lb	231 ft-lb
18	19,423	172 ft-lb	229 ft-lb	18	26,868	238 ft-lb	317 ft-lb
20	24,784	244 ft-lb	325 ft-lb	20	34,284	338 ft-lb	450 ft-lb

## TORQUE SPECIFICATIONS

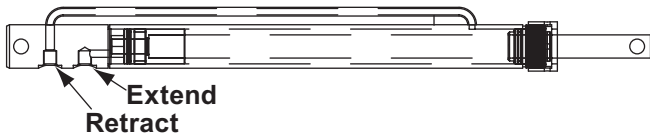
<b>37° JIC Flare Torque Values</b>			
Turns	Size	ft-lb min-max	Assembly Steps
N/A	-02	6-7	<ol style="list-style-type: none"> <li>1. Make sure the tubing and threads are clean.</li> <li>2. Lubricate the threads with 10W hydraulic fluid.</li> <li>3. Hand tighten the nut/sleeve to approximately 30 in-lb.</li> <li>4. Make alignment marks on the nut and fitting.</li> <li>5. Tighten to turn or torque specification.</li> <li>6. When fully tightened, make a second set of alignment marks at the fully tightened position.</li> </ol> <p><b>NOTE: Torque values specified are for threads lubricated with 10W hydraulic fluid.</b> Overtightening will reduce the clamping force resulting in loss of seal and reduction of flow.</p>
N/A	-03	8-9	
2	-04	11-12	
2	-05	14-15	
1-1/2	-06	18-20	
1-1/2	-08	36-39	
1-1/2	-10	57-63	
1-1/4	-12	79-88	
1	-14	94-103	
1	-16	108-113	
1	-20	127-133	
1	-24	158-167	
1	-32	245-258	

<b>O-Ring Boss Torque Values</b>		
Size	ft-lb min-max	Assembly Steps
-02	6-7	<ol style="list-style-type: none"> <li>1. Verify the port, O-ring, sealing surfaces and threads are clean and free of damage.</li> <li>2. Lubricate the threads and the O-ring with 10W hydraulic fluid.</li> <li>3. For an adjustable ORB, completely back off the locknut and washer.</li> <li>4. Hand tighten the fitting until it contacts the port spotface. Point the elbow or tee in the desired direction and hold.</li> <li>5. Torque to specification.</li> </ol> <p><b>NOTE: Torque values specified are for threads lubricated with 10W hydraulic fluid.</b></p>
-03	8-10	
-04	13-15	
-05	17-21	
-06	22-25	
-08	40-43	
-10	43-57	
-12	68-75	
-14	90-99	
-16	112-123	
-20	146-200	
-24	154-215	
-32	218-290	

## MOLDBOARD & A-FRAME ASSEMBLY

1. Remove dust cap from both of the slide box cylinders located at the center/rear of the moldboard. Attach adapters (**B60007** for **810SS**; **B60272** for **8611SS**) to both ports on each slide box cylinder. Tighten fittings per torque chart.

**NOTE: All of the hydraulic adapters can be found packaged with the manifold assembly.**

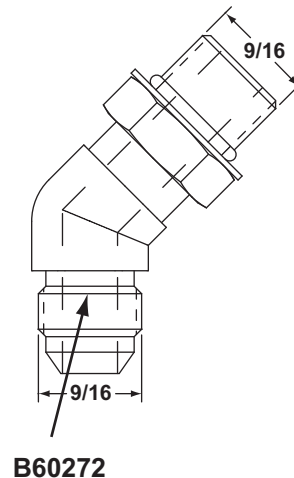
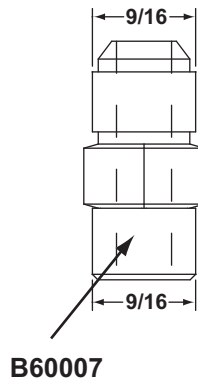
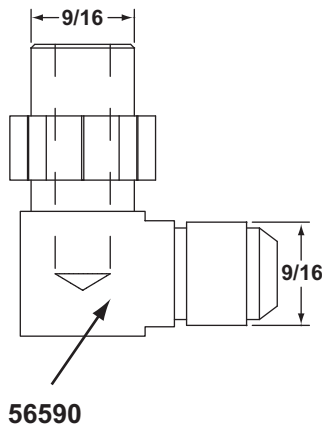
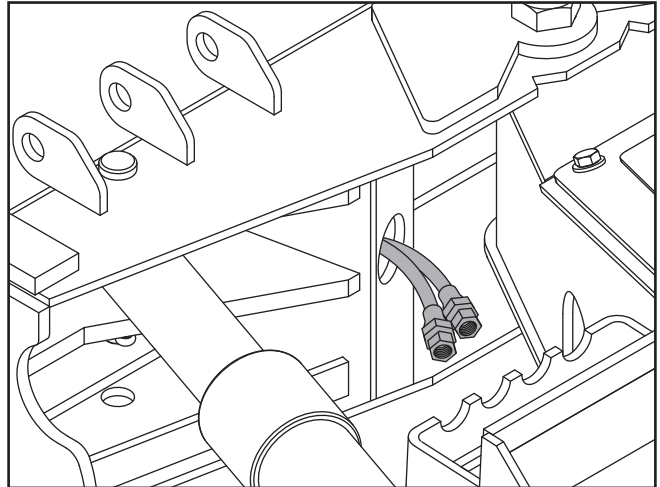


**NOTE: The positions for the rod- and base-end slide box hoses. The hoses that operate the retract functions (rod) of the cylinders are closest to the base of each cylinder. The hoses that operate the extend functions (base) of the cylinders are closest to the rod of each cylinder.**

2. Connect hoses (**B60224**) to each of the hydraulic adapters on the cylinders. Tighten hoses per torque chart.

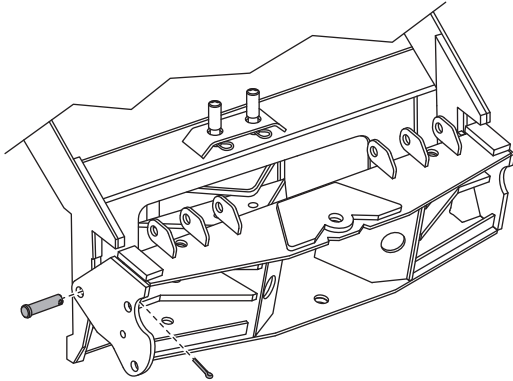
**NOTE: Review the label on each hose for the appropriate part number.**

3. Position the pivot beam and A-frame near the mount locations at the rear of the blade. Place the right and left group of hydraulic hoses (connected to the slide box cylinders) through the 1-1/2" diameter rubber grommet openings in the front face of the pivot beam.

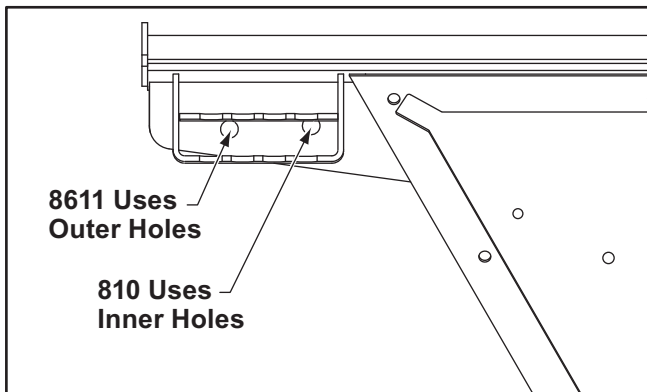


## MOLDBOARD & A-FRAME ASSEMBLY

- Position the pivot beam between the two support ribs until the connecting points on the beam align with those on the snowplow. Insert one 3/4" x 3" clevis pin (**B50069**) through each mounting hole and secure it with a 1/4" x 1-1/2" cotter pin (**90601**).



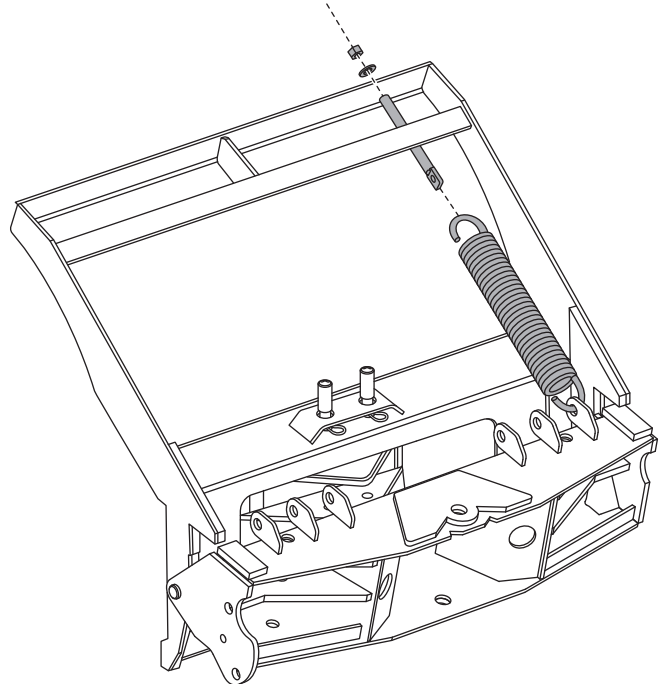
- Position each angle cylinder with the rod end of the cylinder in the pivot beam and the hydraulic hose port facing away from the A-frame. Secure the cylinder to the pivot beam with a 3/4" x 5" clevis pin (**95739**) and a 1/4" x 1-1/2" cotter pin (**90601**). Extend each cylinder rod until the cylinder base mounting hole aligns with the hole on the A-frame angle cylinder bracket. Insert another clevis pin and secure it with a cotter pin.



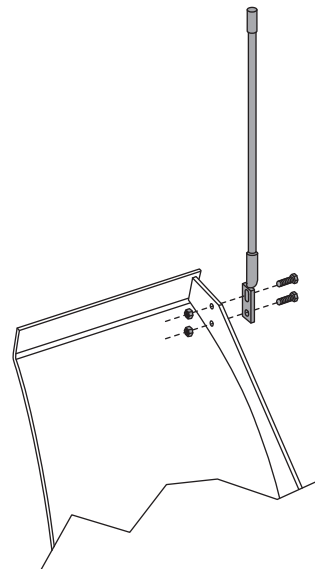
**NOTE:** The 810SS and 8611SS models use the same A-frame but use different mounting points for the angle cylinders due to different stroke lengths on the cylinders. Be sure to use the proper mounting point when replacing or installing cylinders.

**NOTE:** The cylinder ports should be facing away from the A-frame.

- Hook each extension spring to the receiving holes on the pivot beam and attach the opposite end of the spring to its respective spade bolts. Install the spade bolts through the extension spring mounting angle on the top rear of the blade. Secure each spade bolt by placing one 5/8" flat washer on the bolt and thread one 5/8" locknut. Tighten each locknut until a piece of paper can pass between the 3rd and 4th coils on the spring.

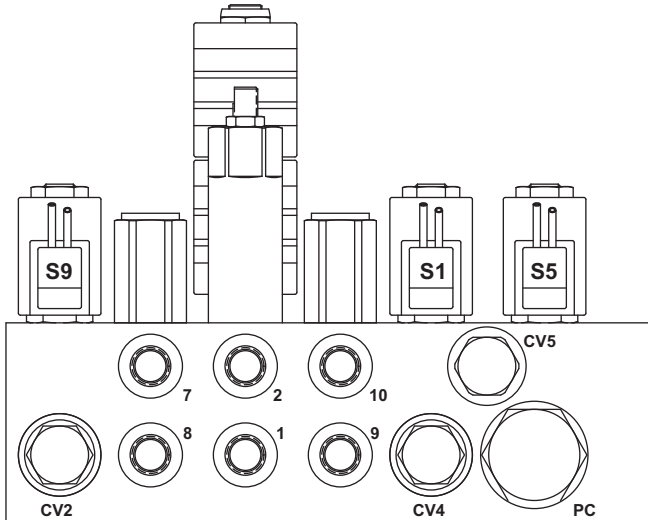


- Install the blade guides at each end of the moldboard. Insert the cap screw through the holes at the top of the wing reinforcement rib. Tighten all screws with locknuts.



## MOLDBOARD & A-FRAME ASSEMBLY

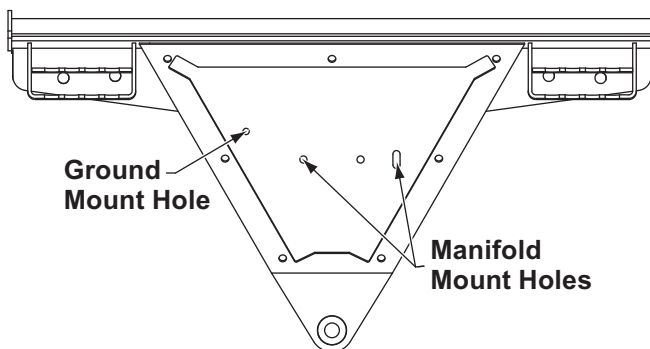
8. Assemble the manifold. Each of the hose ports on the manifold is covered with stretch wrap. Remove the wrap and install adapter (**B60272**) in ports #1, 2, 7, 8, 9 and 10. Tighten fittings per torque chart.



**NOTE: DO NOT** let any foreign objects enter into the open ports. The valves can become contaminated and greatly hinder the snowplow's performance. Torque to proper specifications.

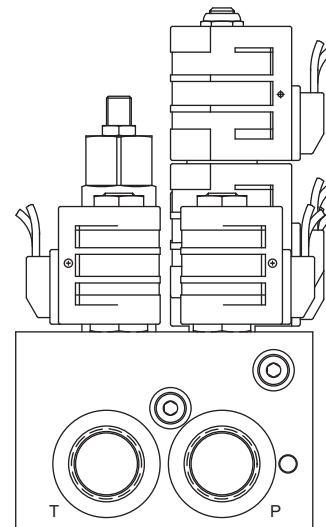
**NOTE: All ports are identified by a stamped number on the manifold. The numbers also identify the hydraulic functions, which can be referenced on the label under the manifold cover.**

9. Remove the A-frame cover to gain access to the inside of the manifold compartment.
10. Attach the manifold to the A-frame using cap screws (**B61514**), washers (**29233**) and locknuts (**B61034**).



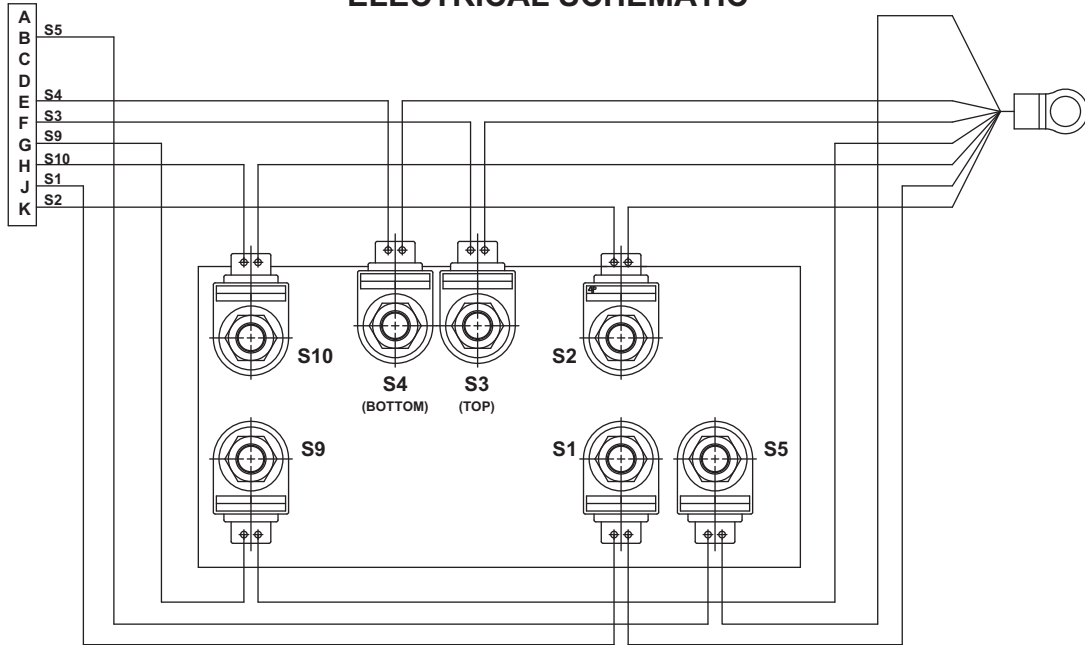
**NOTE: When handling the manifold, hold the manifold at the sides of the block. Never handle the manifold by coils. Doing so can cause a solenoid cartridge to bend, causing the cartridge to stick when activated.**

11. Route the hydraulic hose groupings from the pivot beam to the access holes located on the sides of the A-frame. Connect the hoses to their respective adapters on the manifold.
12. Remove the dust cap from both of the hydraulic angle cylinder ports and attach one 9/16" 90° adjustable elbow ORB adapter to each port. Each adapter should be angled toward the top of the moldboard. Connect one 3/8" x 26" (36" for 8611) hydraulic hose (**B60223** or **B60224**) to each angle cylinder adapter. Be careful not to overtighten the hose connections. Tighten fittings and hoses per torque chart.
13. Connect the hoses to their respective adapters on the manifold. Tighten hoses per torque chart.
14. Install adapters (**B60089**) to ports "T" and "P" on the manifold. Connect a hydraulic hose (**B60086**) to each adapter. Tighten fittings and hoses per torque chart.

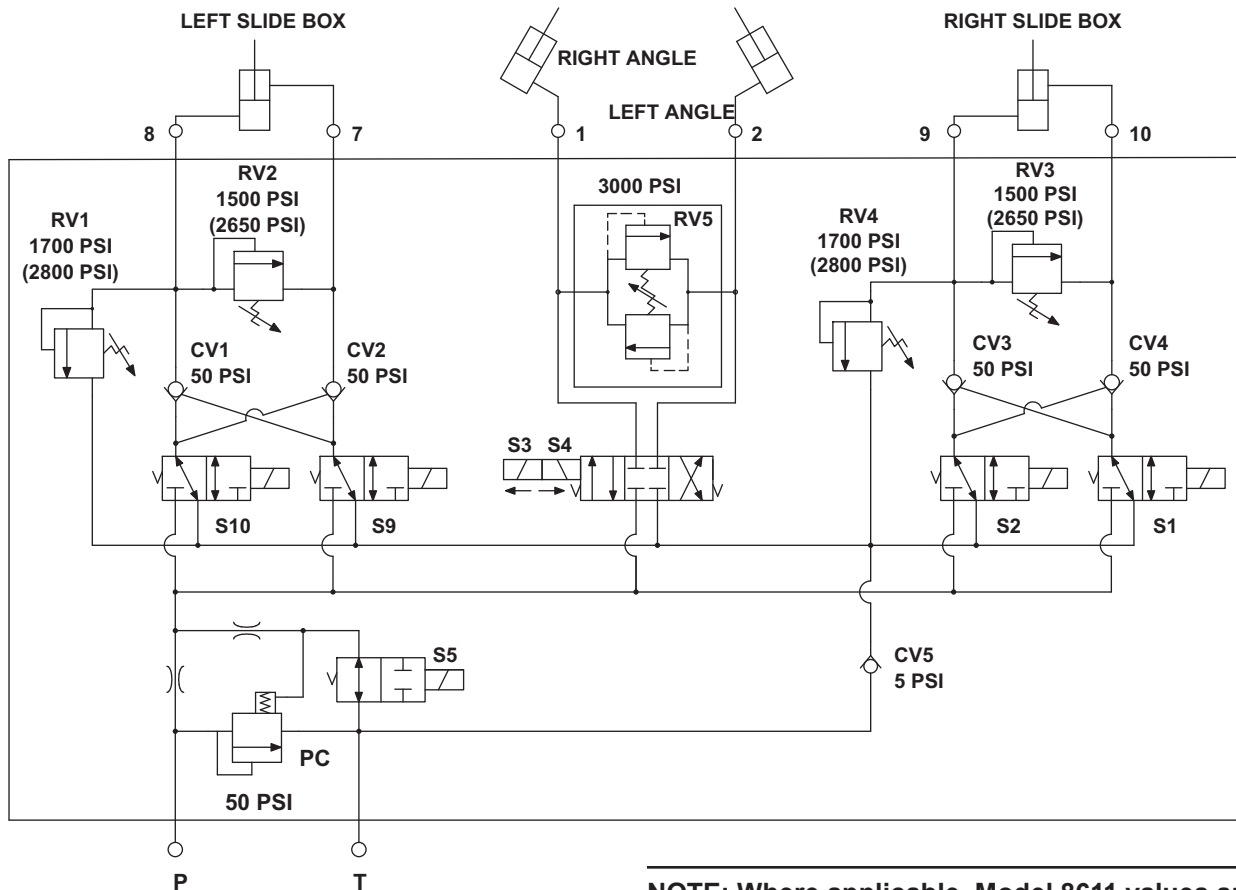


# GENERAL SYSTEM SCHEMATICS

## ELECTRICAL SCHEMATIC



## HYDRAULIC SCHEMATIC

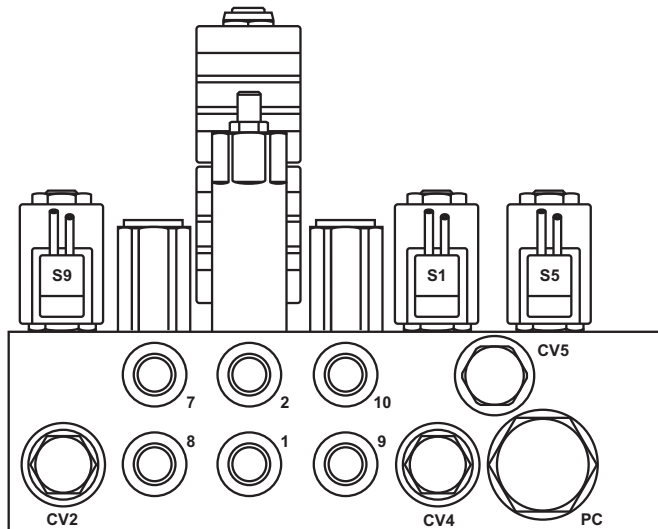
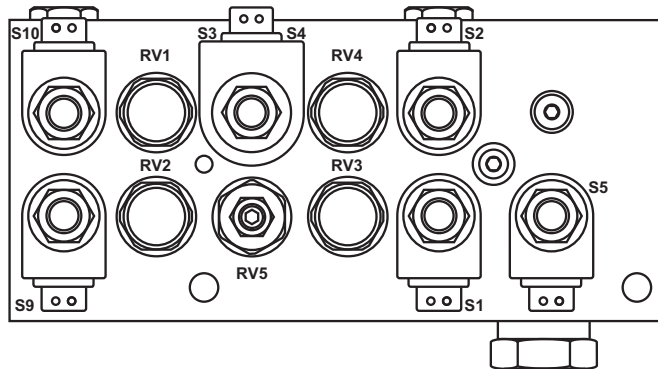


**NOTE: Where applicable, Model 8611 values are in parentheses.**

# Hydraulic Valve & Hose Port Guide

Models 810ss & 8611ss

Recommended for machines equipped with auxiliary hydraulics having a flow rated at 4-30 gallons per minute (gpm) and a maximum pressure rating of 3,000psi.



NOTE: Check valves CV1 & CV3 are not illustrated. Both valves are located on the opposite side of the manifold in the diagram shown above.

## HYDRAULIC HOSES

Port	Function
1	Angle Right – Driver-Side Cylinder
2	Angle Left – Passenger-Side Cylinder
7	Driver-Side Slide Box Retract
8	Driver-Side Slide Box Extend
9	Passenger-Side Slide Box Extend
10	Passenger-Side Slide Box Retract

## RELIEF & CHECK VALVES

Valve	Function
RV1	Driver-Side Wing Pressure Relief
RV2	Driver-Side Wing Anti-Cavitation
RV3	Passenger-Side Wing Anti-Cavitation
RV4	Passenger-Side Wing Pressure Relief
RV5	Angle Relief
CV1	Driver-Side Slide Box Retract Check Valve
CV2	Driver-Side Slide Box Extend Check Valve
CV3	Passenger-Side Slide Box Retract Check Valve
CV4	Passenger-Side Slide Box Extend Check Valve
CV5	Back Pressure Check Valve

NOTE: Energize the following solenoids for the functions:

S1	Passenger-Side Slide Box Retract
S2	Passenger-Side Slide Box Extend
S3	Angle Left – Passenger-Side Cylinder
S4	Angle Right – Driver-Side Cylinder
S9	Driver-Side Slide Box Retract
S10	Driver-Side Slide Box Extend



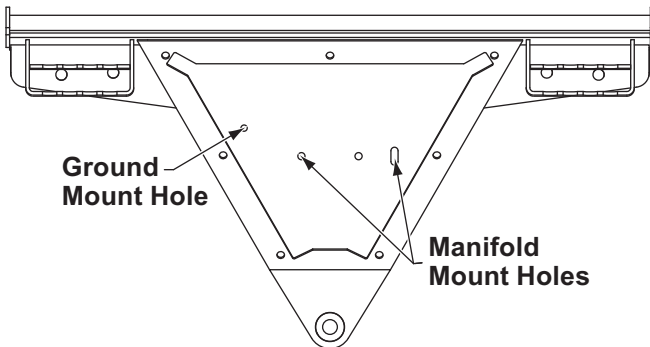
Milwaukee, Wisconsin 53224

B63196



## ELECTRICAL INSTALLATION

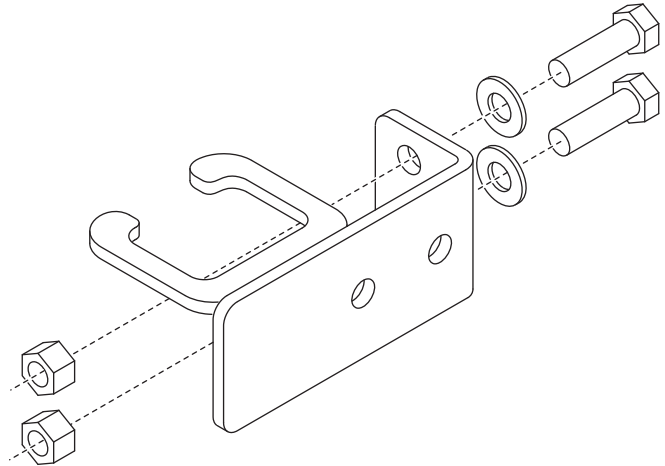
1. Connect the manifold coil harness to the snowplow harness. Feed the opposite end of the snowplow harness through the top access hole in the A-frame (same as 3/4" tank hydraulic hose) located on the driver's side.
2. Attach the grounds on the coil wire harness and snowplow harness with a 3/8" x 1-1/2" cap screw and 3/8" tooth lock washer to the A-frame. Secure the wires with a locknut. Review the diagram for the proper ground location.



3. Connect the snowplow harness to the vehicle harness, and then the vehicle harness to the pistol grip control harness. Attach the ground wire from the vehicle harness to the cab of the skid steer. The pink/black power wire connects to a switched power source with a minimum of 12 volts.

**NOTE: The pink/black power wire MUST be switched ON and OFF with the ignition.**

4. Position the vehicle harness mount bracket in an accessible location for easy on-and-off installation inside the skid steer. Secure the vehicle side harness in the notch on the bracket.
5. Find an accessible location inside the skid steer for the control harness mount bracket, either positioned vertically or horizontally depending on user preference. When choosing a location for your bracket, it should be in easy reach of the vehicle operator and not restricting access to vehicle controls or vehicle instrumentation. The bracket should also not interfere with any safety devices or be positioned so that the control might rotate in front of the operator. Do not mount the bracket in areas prohibited by the vehicle manufacturer. See the vehicle's owner's manual or service manual for details.

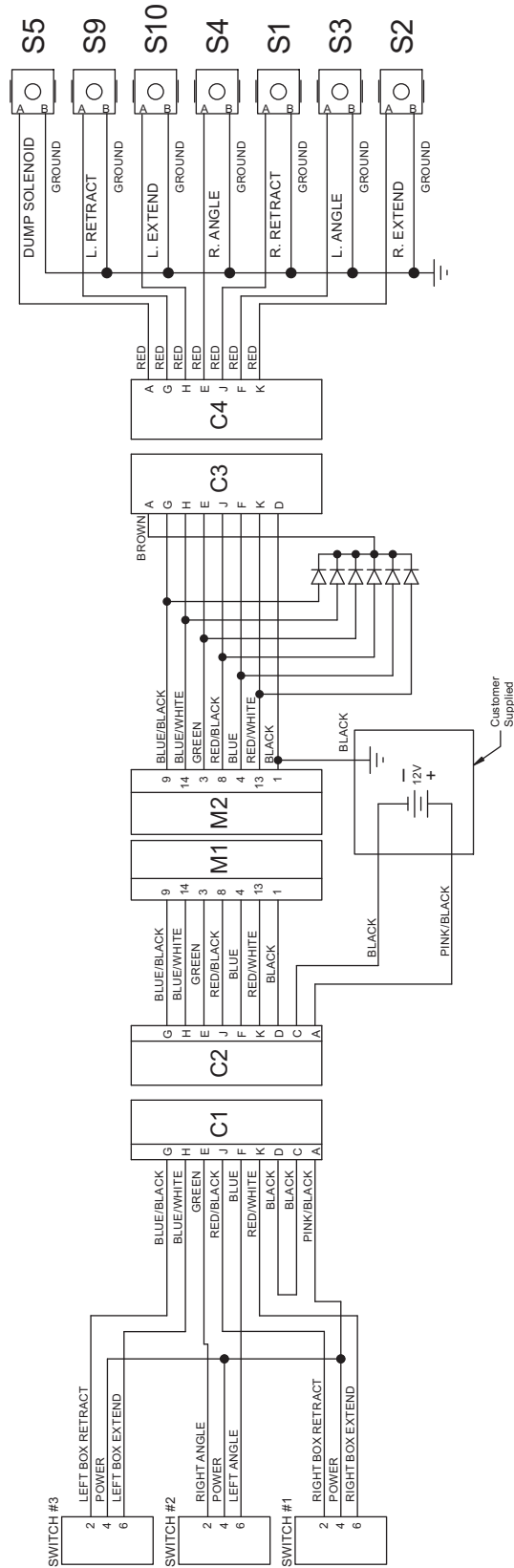


Secure the bracket with hardware provided.

6. Complete the assembly by reattaching the A-frame cover. Align the holes in the cover with those on the A-frame and secure it with 3/8" x 1-1/2" cap screws and 3/8" washers.
7. After completing the mechanical and electrical installations, test all snowplow and lighting functions before attempting to drive or plow.

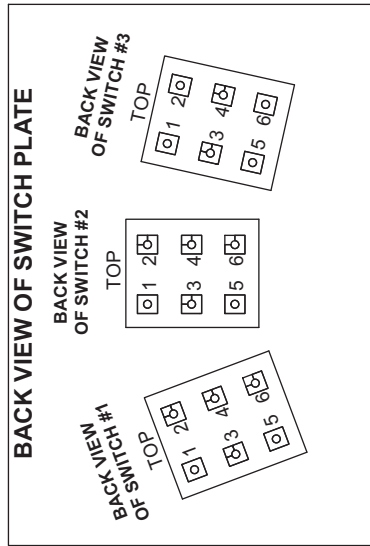
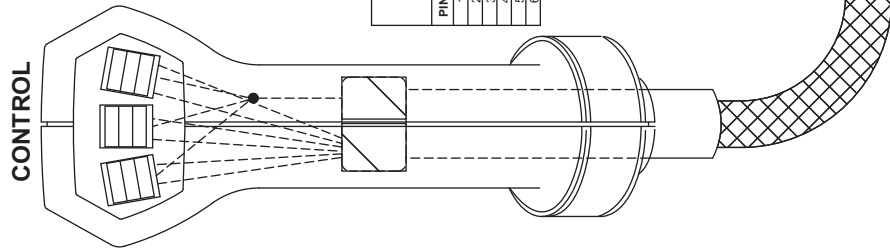
# ELECTRICAL SCHEMATICS – CONTROL HARNESS

## SS/TR PISTOL GRIP CONTROL HARNESS SCHEMATIC (B62131) Includes B62132, B62133, B62134, B62135, B62136, B62210, B62211 & B62219

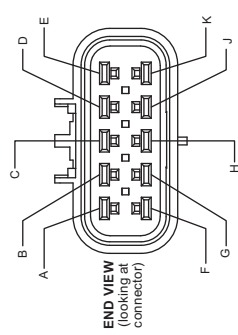


# ELECTRICAL SCHEMATICS – CONTROL HARNESS

## SS/TR CONTROL HARNESS (B62210, B62211& B62219)



PIN #	COLOR	FUNCTION	AWG
A	PINK/BLACK	POWER	18
B	N/A		N/A
C	BLACK	GROUND (JUMPER)	18
D	BLACK	GROUND (JUMPER)	18
E	GREEN	RIGHT ANGLE	18
F	BLUE	LEFT ANGLE	18
G	BLUE/BLACK	LEFT BOX RETRACT	18
H	BLUE/WHITE	LEFT BOX EXTEND	18
J	RED/BLACK	RIGHT BOX RETRACT	18
K	RED/WHITE	RIGHT BOX EXTEND	18



### SWITCH # 1

NOTE: NO NUMBERS ON SWITCH (USE THIS CHART TO FIND TOP)

PIN #	COLOR	AWG	LENGTH
1	RED/BLACK	18	84"
2	PINK/BLACK	18	6"
3	RED/WHITE	18	84"

### SWITCH # 2

NOTE: NO NUMBERS ON SWITCH (USE THIS CHART TO FIND TOP)

PIN #	COLOR	AWG	LENGTH
1	GREEN	18	84"
2	PINK/BLACK	18	6"
3	BLUE	18	84"

### SWITCH # 3

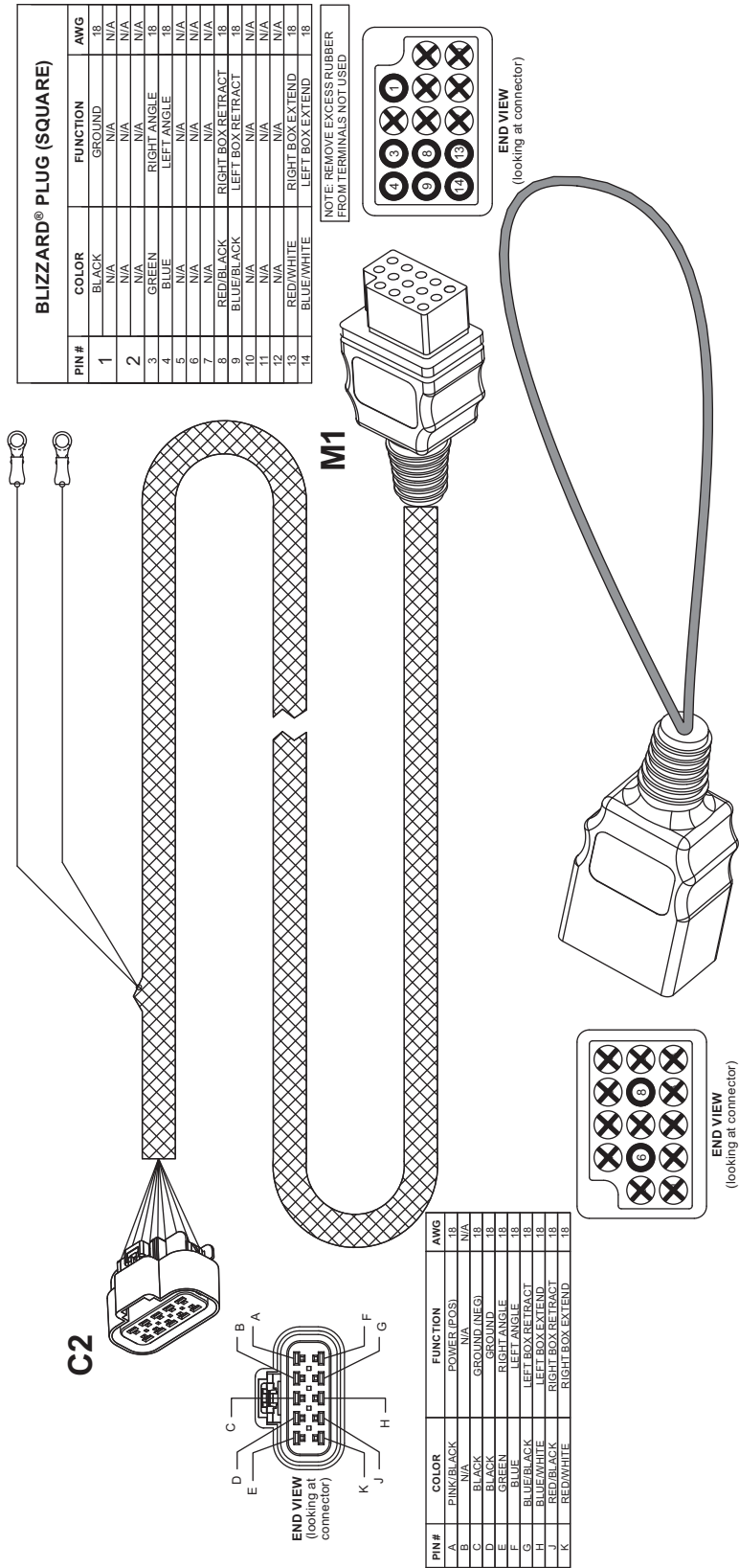
NOTE: NO NUMBERS ON SWITCH (USE THIS CHART TO FIND TOP)

PIN #	COLOR	AWG	LENGTH
1	BLUE/BLACK	18	84"
2	PINK/BLACK	18	6"
3	BLUE/WHITE	18	84"

C1

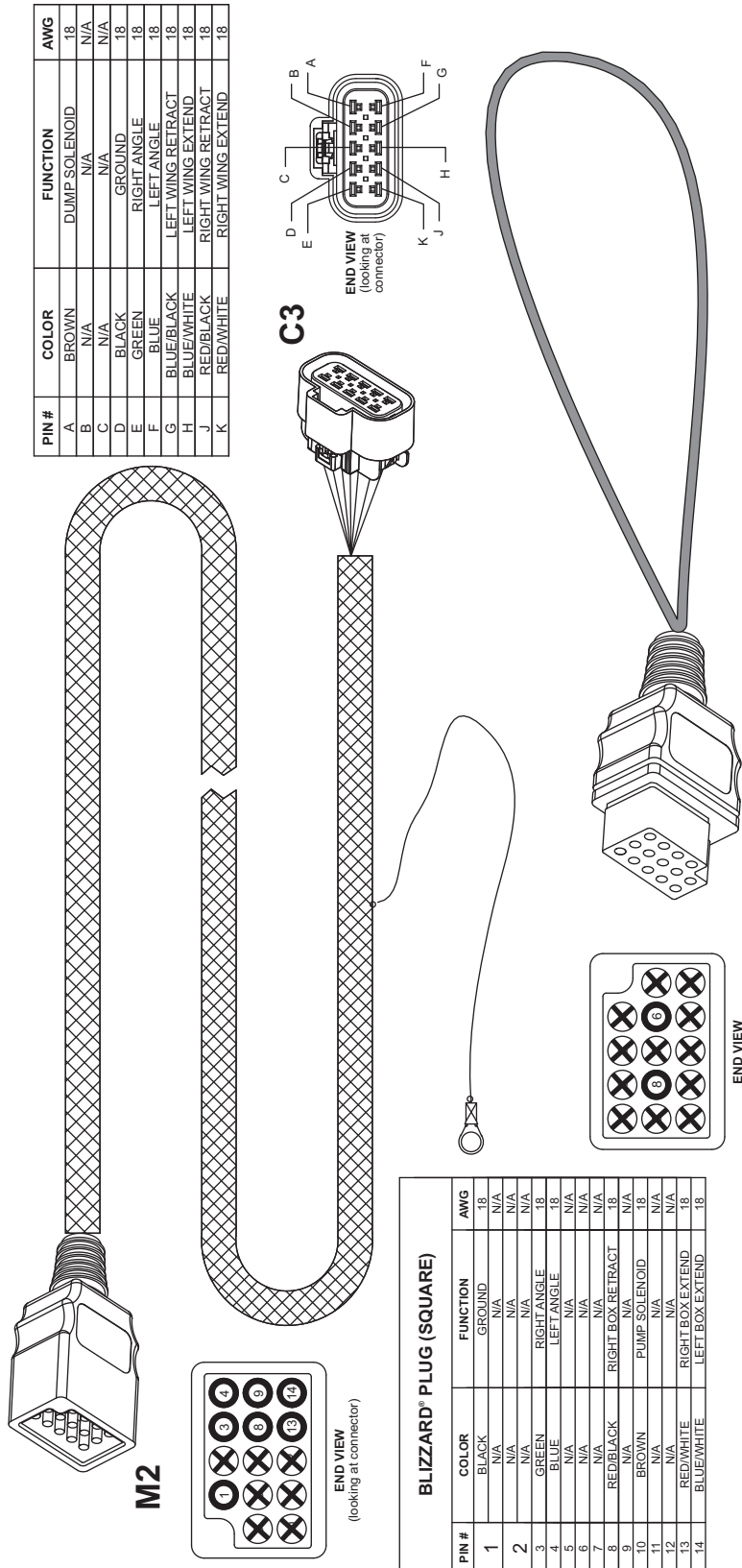
# ELECTRICAL SCHEMATICS – VEHICLE HARNESS

## SS/TR VEHICLE HARNESS (B62132, B62133)

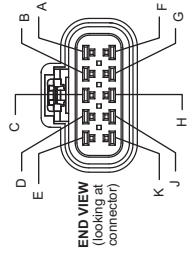
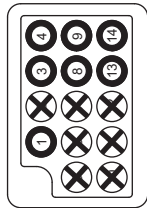


# ELECTRICAL SCHEMATICS – SNOWPLOW HARNESS

## SS/TR PLOW HARNESS (B62134, B62135)

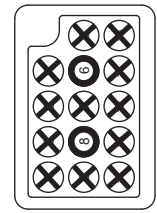


PIN #	COLOR	FUNCTION	AWG
A	BROWN	DUMP SOLENOID	18
B	N/A	N/A	N/A
C	N/A	N/A	N/A
D	BLACK	GROUND	18
E	GREEN	RIGHT ANGLE	18
F	BLUE	LEFT ANGLE	18
G	BLUE/BLACK	LEFT WING RETRACT	18
H	BLUE/WHITE	LEFT WING EXTEND	18
J	RED/BLACK	RIGHT WING RETRACT	18
K	RED/WHITE	RIGHT WING EXTEND	18



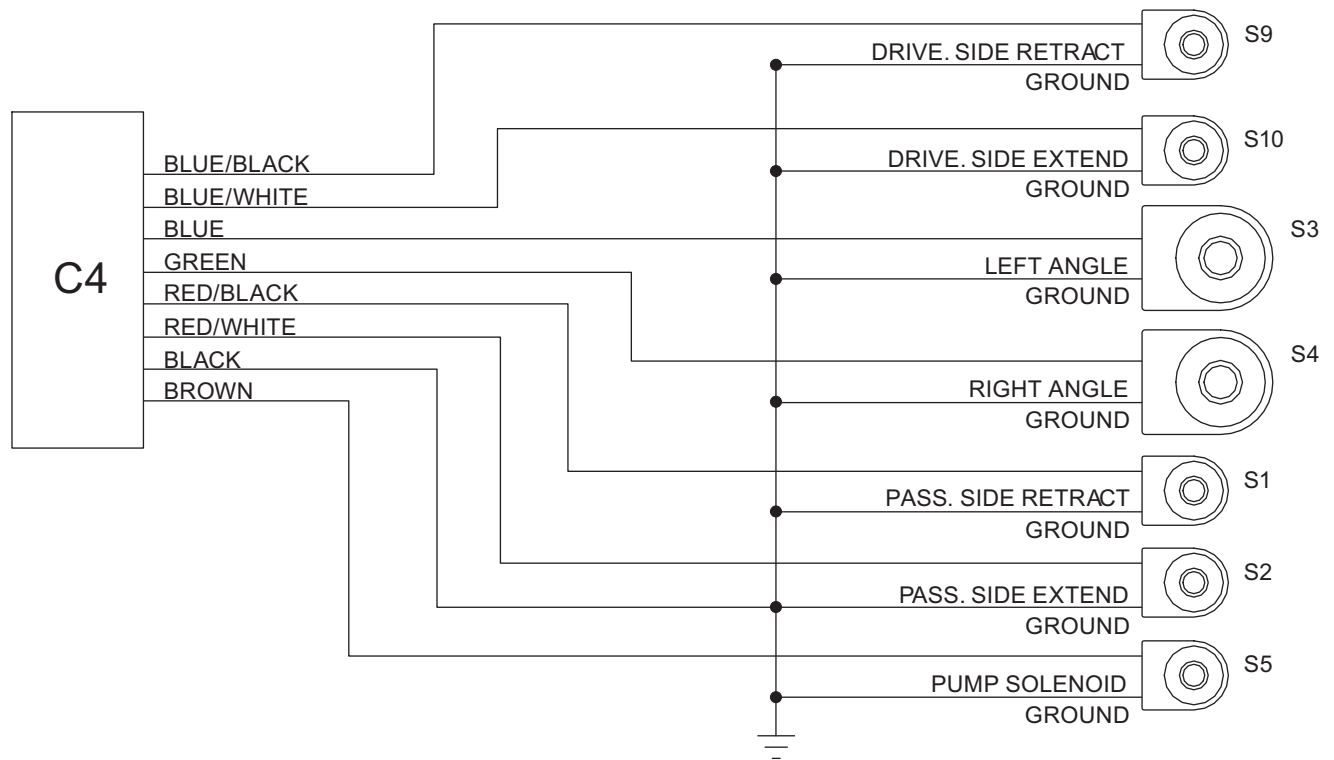
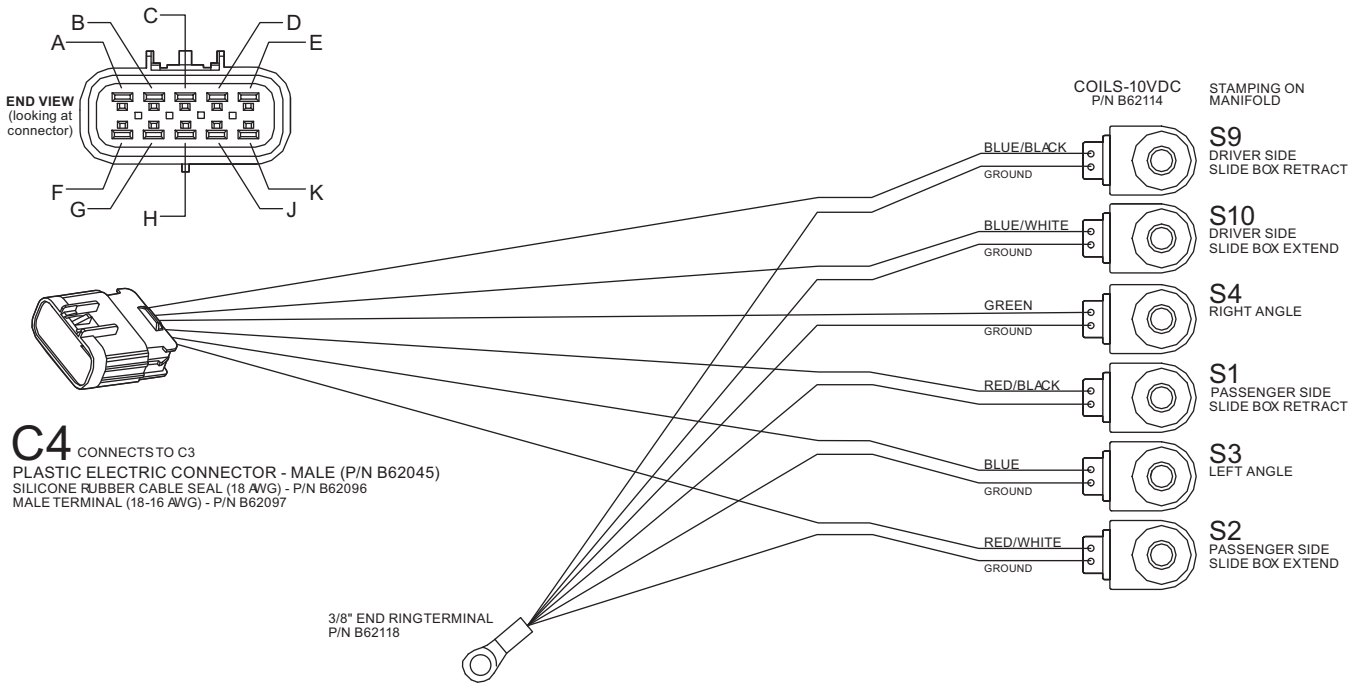
**BLIZZARD® PLUG (SQUARE)**

PIN #	COLOR	FUNCTION	AWG
1	BLACK	GROUND	18
2	N/A	N/A	N/A
3	N/A	N/A	N/A
4	GREEN	RIGHT ANGLE	18
5	BLUE	LEFT ANGLE	18
6	N/A	N/A	N/A
7	N/A	N/A	N/A
8	RED/BLACK	RIGHT BOX RETRACT	18
9	N/A	N/A	N/A
10	BROWN	PUMP SOLENOID	18
11	N/A	N/A	N/A
12	N/A	N/A	N/A
13	RED/WHITE	RIGHT BOX EXTEND	18
14	BLUE/WHITE	LEFT BOX EXTEND	18



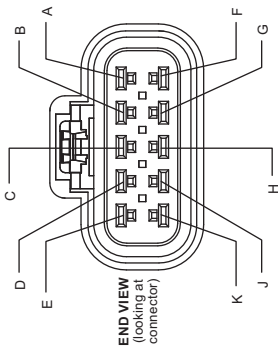
# ELECTRICAL SCHEMATICS – COIL HARNESS

## SS/TR COIL HARNESS (B62136)

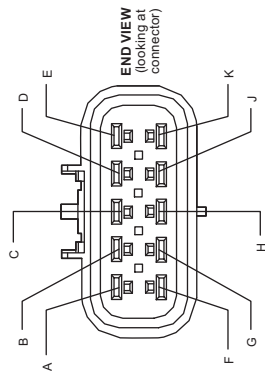
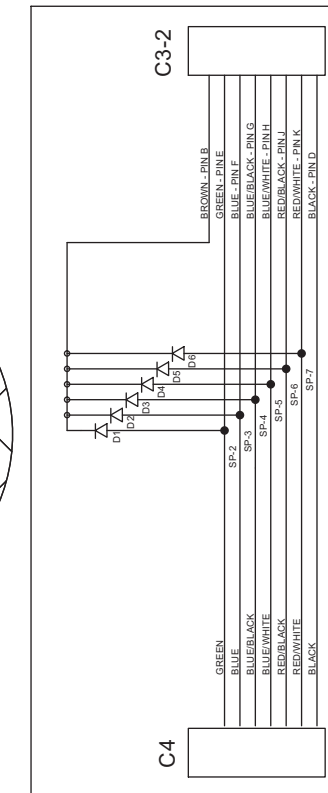
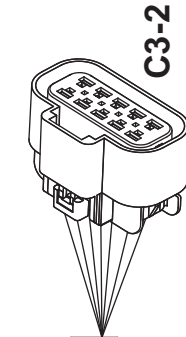


# ELECTRICAL SCHEMATICS – AUXILIARY CONTROL HARNESS (OPTIONAL)

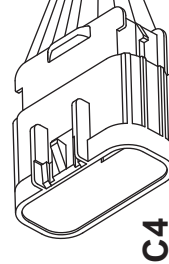
## AUXILIARY CONTROL HARNESS W/ DIODES (B62162)



C3-2			
PIN #	COLOR	FUNCTION	AWG
A	N/A	N/A	N/A
B	BROWN	PUMP SOLENOID	18
C	N/A	N/A	N/A
D	BLACK	GROUND	18
E	GREEN	RIGHT ANGLE	18
F	BLUE	LEFT ANGLE	18
G	BLUE/BLACK	LEFT BOX EXTEND	18
H	BLUE/WHITE	LEFT BOX RETRACT	18
J	RED/BLACK	RIGHT BOX RETRACT	18
K	RED/WHITE	RIGHT BOX EXTEND	18



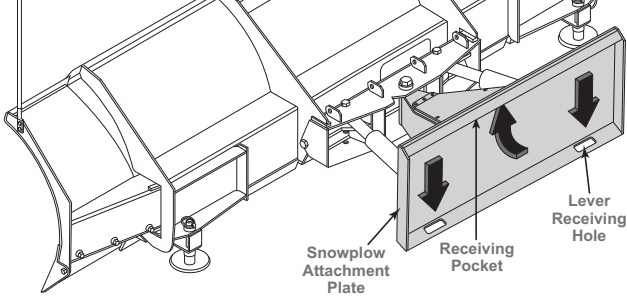
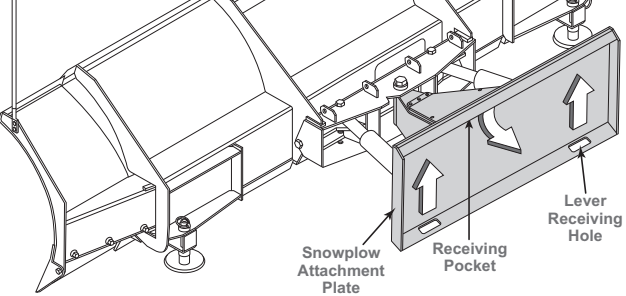

C4			
PIN #	COLOR	FUNCTION	AWG
A	N/A	N/A	N/A
B	N/A	N/A	N/A
C	N/A	N/A	N/A
D	BLACK	GROUND (JUMPER)	18
E	GREEN	RIGHT ANGLE	18
F	BLUE	LEFT ANGLE	18
G	BLUE/BLACK	LEFT BOX RETRACT	18
H	BLUE/WHITE	LEFT BOX EXTEND	18
J	RED/BLACK	RIGHT BOX RETRACT	18
K	RED/WHITE	RIGHT BOX EXTEND	18



# MOUNTING & DISMOUNTING INSTRUCTIONS

Prior to operating your POWER PLOW® snowplow, review the Mounting and Dismounting Instructions label on the back of the driver-side moldboard.

**NOTE: If at any time the Mounting and Dismounting Instructions label, or any other label attached to your snowplow becomes illegible, promptly replace them.**

MOUNT INSTRUCTIONS	DISMOUNT INSTRUCTIONS
Read Owner's Manual for Complete Instructions.	Read Owner's Manual for Complete Instructions.
 <p>Snowplow Attachment Plate</p> <p>Receiving Pocket</p> <p>Lever Receiving Hole</p>	 <p>Snowplow Attachment Plate</p> <p>Receiving Pocket</p> <p>Lever Receiving Hole</p>
<p><b>⚠ WARNING: Keep fingers away from snowplow and skid steer mounting points. Follow skid steer labeling and owner's manual.</b></p>	
<ul style="list-style-type: none"> <li>• Position the skid steer close to the snowplow and align the mount points on the skid steer plate with the snowplow attachment plate.</li> <li>• Tilt the skid steer plate forward and position the top edge of the plate under the receiving pocket on the top edge of the snowplow attachment plate.</li> <li>• Slowly raise the arms on the skid steer and tilt the skid steer plate toward the cab until the snowplow attachment plate is flush with the skid steer plate. Turn the engine OFF.</li> <li>• Engage both locking levers on the skid steer by rotating each handle 90° into a horizontal position. The skid steer locking levers shall insert into the snowplow lever receiving holes.</li> <li>• Attach all hydraulic hoses on the snowplow to the auxiliary hydraulic connections located on the skid steer. On some skid steer models, it may be necessary to initiate an auxiliary hydraulic switch on the skid steer prior to operating the snowplow.</li> <li>• Connect the snowplow wire harness to either the pistol grip control or auxiliary electrical connection on the skid steer.</li> </ul>	<ul style="list-style-type: none"> <li>• Lower the snowplow on a flat, level surface and turn the engine OFF.</li> <li>• Disconnect the snowplow wire harness from the skid steer.</li> <li>• Disconnect all hydraulic hoses on the snowplow from the auxiliary hydraulic connections located on the skid steer.</li> <li>• Disengage both locking levers on the skid steer by rotating each handle 90° into a vertical position. The skid steer locking levers shall withdraw from the snowplow lever receiving holes.</li> <li>• Turn the engine ON. Slowly lower the arms on the skid steer and tilt the skid steer plate forward away from the cab until the top edge of the skid steer plate clears the receiving pocket on the top edge of the snowplow attachment plate.</li> <li>• Back the skid steer away slowly.</li> </ul>
 <p>810SS-8611SS SKID STEER</p>	
<p><small>U.S. Patents 5,638,618; 5,899,007; 6,178,669; 6,276,076; 6,393,737; 6,408,549; 6,412,199; 6,442,877; 6,615,513; CAN Patents 2,184,922; 2,229,783; 2,259,508; 2,358,145; 2,358,354; 2,466,195; and other patents pending.</small></p>	

44833



## TESTING YOUR SNOWPLOW

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1. To test all of the functions on the POWER PLOW® snowplow, your snowplow needs to be properly attached to the skid steer. Refer to the Mounting and Dismounting label on the back of the snowplow.
2. Complete the hydraulic connections with the skid steer turned OFF.

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**NOTE: Due to the various makes and models of skid steers available, hydraulic couplings for the auxiliary hydraulic connections are not provided. Consult your skid steer's owner's manual for the appropriate couplings needed.**

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Connect the couplings to the hoses for the pressure port ("P") and the tank port ("T") on the manifold. Complete the hydraulic installation by making the appropriate connections at the skid steer.

3. Start the skid steer and begin to initiate the blade functions.

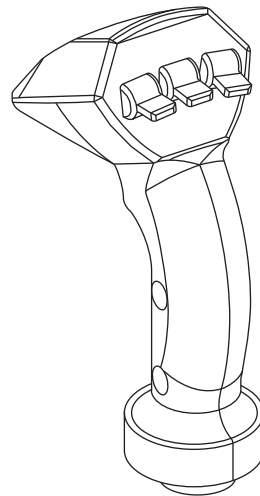
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**NOTE: Depending on the skid steer model, it may be necessary to turn ON the skid steer's auxiliary hydraulic switch prior to operating the snowplow.**

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The left switch on the control operates the driver-side wing. Push the switch "UP" to extend the wing and "DOWN" to retract the wing. Push the center switch "UP" to angle left and "DOWN" to angle right. The right switch operates the passenger-side wing and works the same as the left switch. Upon initiating the switches on the pistol grip control, you may notice a snowplow function is slow or delayed. The hydraulic fluid is filling the cylinders and replacing air in the system. Monitor the hydraulic fluid level in your skid steer, and fill as necessary.

**(No LED Float Light or Indicator Light)**



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**NOTE: This snowplow uses the skid steer controls for an emergency stop. See skid steer manual for details.**

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# MAINTENANCE

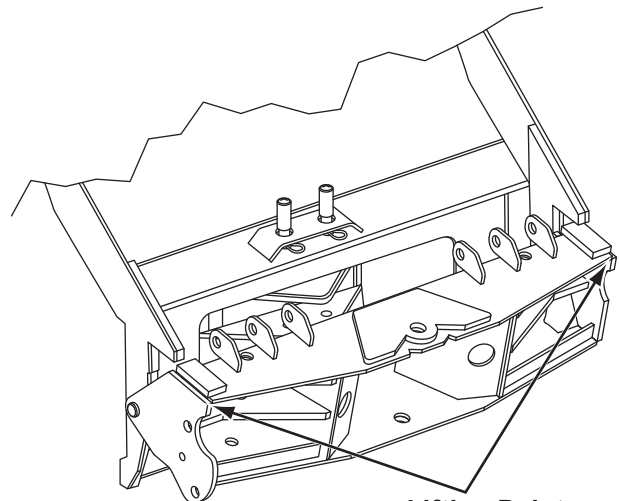
Maintenance	Periodically	Yearly
Check fasteners for tightness. Torque to specifications.	X	
Check hoses for wear and leaks.	X	
Check cylinders for leaks, inspect rod ends for corrosion and pitting.	X	
Lubricate all exposed cylinder rod ends with liquid white lithium grease to prevent corrosion.		X
Check cutting edges and plow shoes for wear. NOTE: Do not discard plow shoe washers, these should be retained for different shoe adjustments.	X	
Clean and lubricate all electrical plugs and connections with dielectric grease. Clean and install all dust caps prior to storing.	X	X
Lubricate all pins and bushings, inner slide box and A-frame latch with NLGI Grade 2 multi-purpose lithium complex grease with molybdenum (MPGM) to maintain consistent operation.	X	X
Clean and paint all scratches or exposed metal with BLIZZARD® touch-up paint.	X	X
Check the hydraulic fluid level. Fill with fluid to 3/4" from the top of the reservoir. Do not exceed this level. Never mix different types of fluid.	X	
Change the hydraulic fluid as specified in your skid steer Owner's Manual.		X
Check the trip spring adjustment. Properly adjusted tension will allow a sheet of paper to pass between the 3rd and 4th coils of the spring.	X	
Adjust the wing spring as needed or install an optional second extension spring for increased return speed.	X	
Pressure wash and dry the entire snowplow prior to storing.		X
Cover the snowplow with a tarp if stored outside. This will protect your snowplow from sun fading and inclement weather which can lead to accelerated corrosion.		X

## REMOVING FROM STORAGE

1. Perform all regular maintenance.
2. Replace the hydraulic fluid in the hydraulic system. Prolonged storage could result in condensation build-up.
3. Follow the mounting procedure on the Mounting and Dismounting label.
4. Initiate all of the functions and test before using.

## LIFTING

To lift and move this snowplow, attach chain fall grab hooks to outside pivot beam area shown. Always follow recommended lift warnings and procedures. See following page for snowplow weights and dimensions.

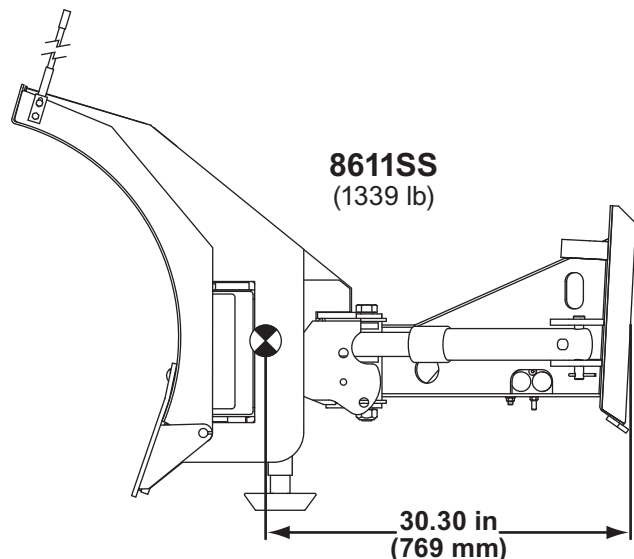
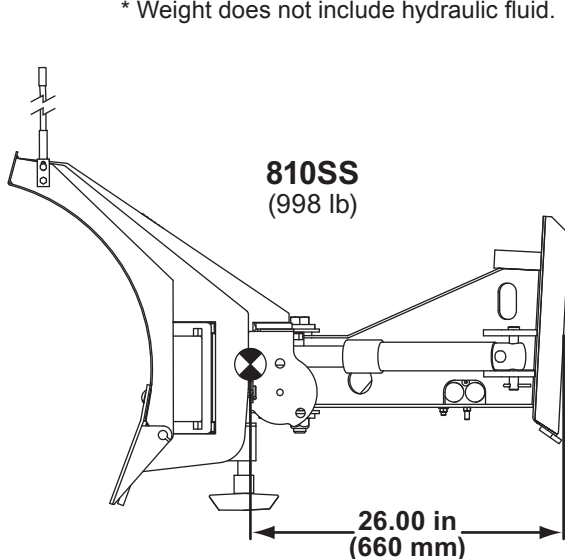


**Lifting Points  
(both sides)**

# TECHNICAL SPECIFICATIONS & CENTER OF GRAVITY INFORMATION

Part	Specification	810SS	8611SS
Moldboard	Length	96" (8')	102" (8'-6")
	Thickness	12 ga	11 ga
	Height	31"	34"
	Reinforcement	4 Ribs @ 1/4"	
	Cutting Edge	1/2" x 6"	5/8" x 6"
	Finish	Powder Coat White	
	Trip Mechanism	(4) 3/8" Hooked Extension	(6) 3/8" Hooked Extension
Wings	Length	12"	23"
	Thickness	11 ga	7 ga
	Height	31"	34"
	Reinforcement	1 Rib @ 1/4"	
	Cutting Edge	1/4" x 10" T1	3/8" x 12-1/2" T1
	Finish	Powder Coat White	
A-Frame	Material	1/4" and 5/16" Mild Steel	
	Cover	1/4" Mild Steel w/Non-Skid Texture	
	Finish	Powder Coat Black	
Manifold	Construction	Clear Anodized Aluminum	Gold Anodized Aluminum
	Valves	Electro-Hydraulic Cartridge	
Cylinders	<i>Angle Cylinders</i>	2	
	Stroke	10"	12"
	Ram Diameter	1-3/4"	2"
	Bore Diameter	2"	2-1/4"
	<i>Slide Box Cylinders</i>	2	
	Stroke	13-15/16"	18-7/16"
	Bore Diameter	1-1/2"	1-3/4"
Snowplow Specs	Weight*	998 lb	1339 lb
	Compact Width	96" (8')	102" (8'-6")
	WIDE PASS™ Width	120" (10')	132" (11'-3")
	BUCKET BLADE™ Width	111" (9'-3")	118" (9'-10")
	Adjustable Plow Shoes	(2) Heavy-Duty Cast Steel	
	Mount Mechanism	Universal Attachment Plate	
	Standard Control Station	Pistol Grip w/3 Switches	
	Optional Integrated Control	Auxiliary Harness w/Diodes	

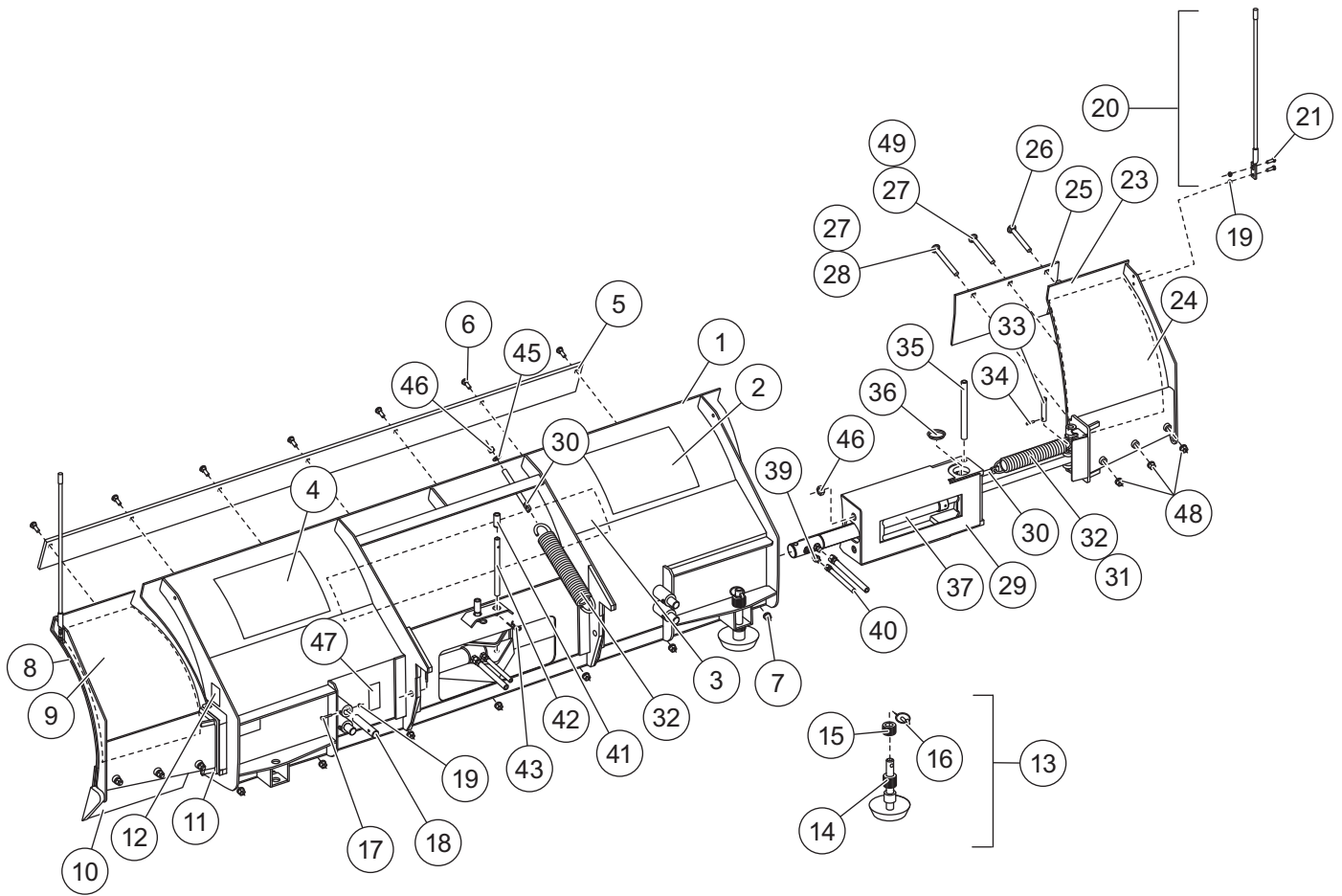
\* Weight does not include hydraulic fluid.



## TROUBLESHOOTING

Problem	Cause	Solution
Snowplow functions will not work after all connections are made or snowplow functions are slow.	S5 coil is not magnetizing.	S5 coil should magnetize with each function.
	Solenoid cartridge valve may be contaminated or damaged. A bent or overtorqued cartridge will not allow the valve to move freely inside of the cartridge.	Determine a damaged cartridge valve by reversing the driver-side and passenger-side cartridge valves one at a time. Replace valve if necessary.
Snowplow functions start and terminate suddenly.	Skid steer hydraulic fluid flow is set to variable flow.	For snowplow functions to work, the skid steer hydraulic fluid flow should be set to continuous flow. Review your skid steer operation manual for proper flow settings.
Multiple valves function simultaneously.	Diodes may be corroded or damaged.	Clean diodes thoroughly and/or replace.
	Wire harness may be damaged.	Verify harness is not damaged. Review schematic(s) to troubleshoot connection(s). Replace if needed.
Snowplow functions are reversed (e.g. driver-side wing extends when passenger-side wing is activated from the control).	Hydraulic hoses are connected wrong or coils and wiring are incorrect.	Review the Hydraulic Valve and Hose Port Identification Guide under the A-frame cover for proper port locations and/or place respective coils over correct valves.
Both wings extend when the skid steer hydraulics are turned ON.	Pressure (P) and tank (T) hoses are installed in the wrong position on the skid steer.	Review the skid steer operation manual to determine the pressure and tank connections.
Snowplow angles only one way.	Skid steer computer conflicts with cylindrical connection.	Using a jumper wire, connect pin K to pin L at the back of the cylindrical connector (cylindrical connector only).
Wing will not stay angled when plowing.	The wing pressure relief valve is contaminated.	Test the wing pressure relief. Attach a T-fitting with a fluid psi gauge to the base end of the wing cylinder. Pressure relief should not be greater than 1700 psi (2800 psi for 8611SS) Replace if less than 1500–1700 psi (2600–2800 psi for 8611SS).
Snowplow will not stay angled when plowing.	The angle pressure relief valve is set too low. <i>NOTE: Increasing the pressure relief valve will cause damage to your snowplow. Do not set the pressure relief greater than 3000 psi.</i>	Follow the guidelines indicated above; however, the psi setting should not exceed 3000 psi. <i>NOTE: If the snowplow is floating back when angled to the right, adjust the left pressure relief valve and vice versa.</i>
Wing will not move.	Control station, harness or cables may be loose or improperly connected.	Verify control station, harness and all cables are securely connected. Clean if necessary.
	No power to the cartridge valve.	Verify S9 and S10 coils (passenger-side slide box retract and extend) and S1 and S2 (driver-side slide box retract and extend) are connected properly. Diagnose the wire harness. Review all wire harness schematics. If power is present, review the next step.
	Coils are receiving power.	Verify coils are magnetizing. Position a screwdriver inside of the coil. When the respective function is activated, the screwdriver is drawn to the side of the coil. If the coil is not drawn to the screwdriver, replace the coil. If power is present, review the next step.
	Solenoid cartridge may be contaminated or damaged. A bent cartridge will not allow the valve to move freely inside of the cartridge.	Determine a damaged cartridge valve by reversing the driver-side and passenger-side cartridge valves. Replace valve if necessary.
Snowplow will not angle.	Review all probable causes above.	<i>NOTE: Verify coils S3 and S4 for angle functions.</i>

# MOLDBOARD & WING PARTS – ALL MODELS



Item	Part	Qty		Description
		810SS	8611SS	
1	B52074	1	–	Moldboard
	B52085	–	1	Moldboard
2	59900	1	1	Label – Information (Warning)
3	B63160	1	1	Decal – Center Moldboard
4	44833	1	1	Label – Skid Steer Mounting & Dismounting
5	B61292	1	–	Cutting Edge, Moldboard (1080)
	B52139	–	1	Cutting Edge, Moldboard (1080)
6	B61196	7	–	1/2-13 x 1-1/2 Carriage Bolt G8
	80238	–	7	5/8-11 x 2 Carriage Bolt G8
7	B61365	13	6	1/2-13 Flanged Locknut
	B61626	–	7	5/8-11 Flanged Locknut
8	B51042	1	–	Wing – DS
	B51100	–	1	Wing – DS
9	96325	1	–	Wing Decal – DS
	96329	–	1	Wing Decal – DS
10	B51048	1	–	Cutting Edge, Driver-Side Wing (T1)
	B51069	–	1	Cutting Edge, Driver-Side Wing (T1)

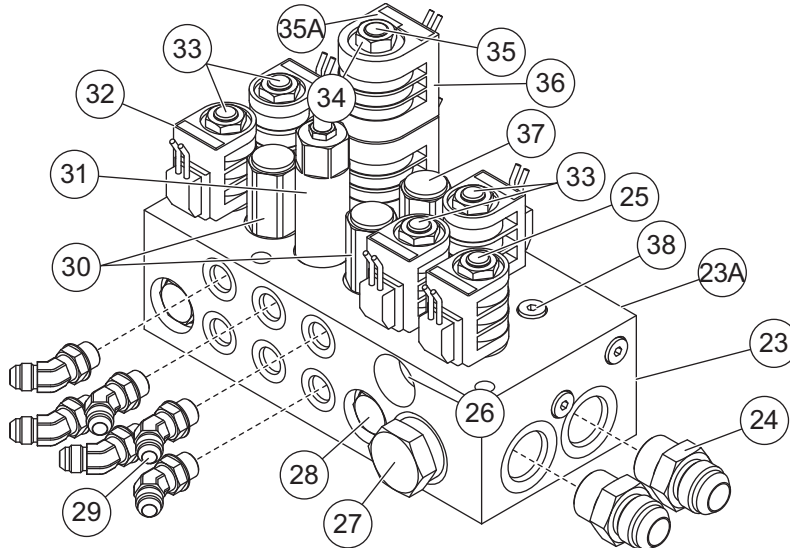
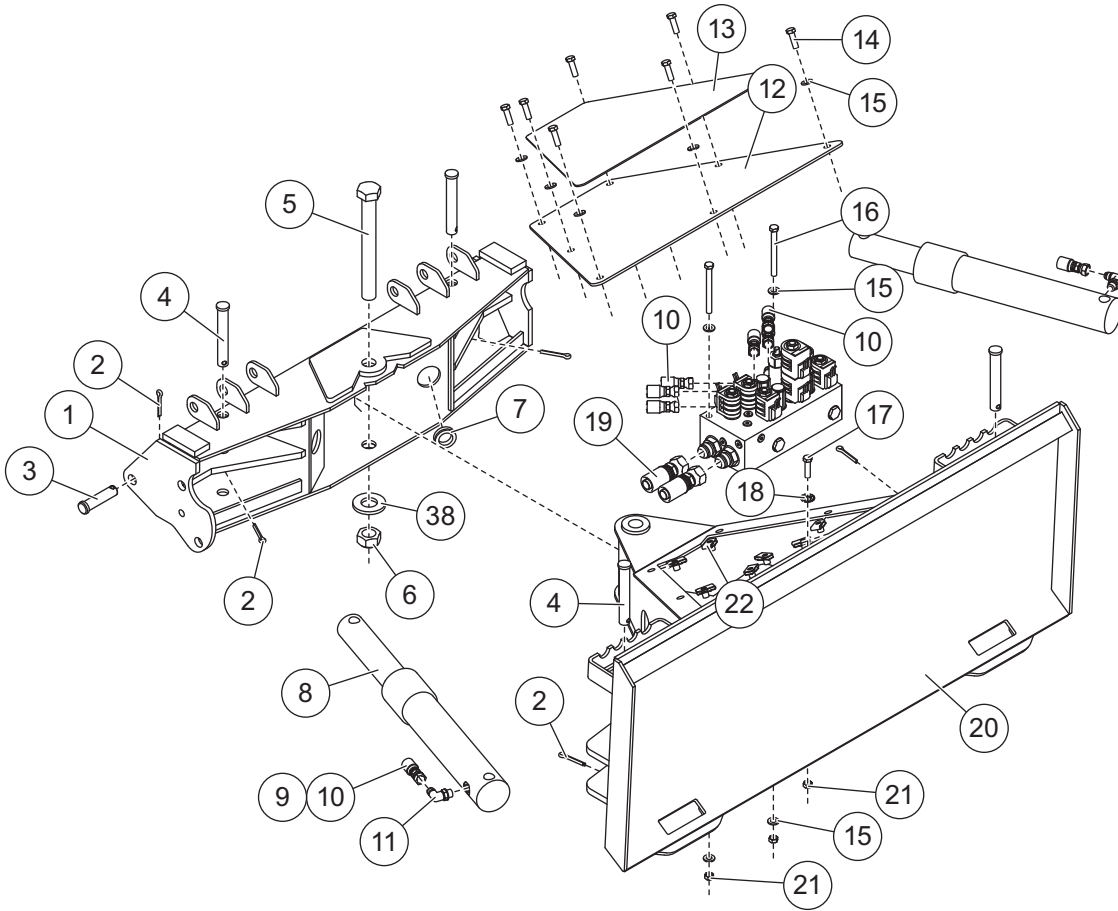
G = Grade

## MOLDBOARD & WING PARTS – ALL MODELS

Item	Part	Qty		Description
		810SS	8611SS	
11	B50057	1	–	Slide Box – DS
	B50075	–	1	Slide Box – DS
12	29593	2	2	Label – Multiple Pinch Points
13A	49071	2	2	HD Disc Shoe Assy
13	60045	2	2	1-1/8 ID, 1-5/8 OD x 1-1/2 Spacer
14	91192	44	28	1" Flat Washer
15	93010	2	2	7/16 x 1-3/4 Linchpin
17	B61383	4	4	5/16-18 x 2-1/4 Hex Cap Screw G8
18	B61681	4	4	1 x 4-1/8 Slide Box Stop Pin
19	B61384	4	4	5/16-18 Locknut G8
20A	B61049	1	1	Plow Guide Assy (Set of 2)
20	68494	4	4	5/16-18 x 1 Hex Cap Screw G5
21	91332	4	4	5/16-18 Locknut GB
22	B51043	1	–	Wing – PS
	B51101	–	1	Wing – PS
23	96326	1	–	Wing Decal – PS
	96330	–	1	Wing Decal – PS
24	B51047	1	–	Cutting Edge – PS (T1)
	B51070	–	1	Cutting Edge – PS (T1)
25	B61418	2	–	1/2-13 x 3-1/2 Carriage Bolt G8
	B61360	–	2	1/2-13 x 5 Carriage Bolt G8
26	B61419	2	2	1/2-13 x 4-1/2 Carriage Bolt G8
27	B61622	2	2	1/2-13 x 5-3/4 Carriage Bolt G8
28	B61362	–	2	1/2-13 x 6-1/2 Carriage Bolt G8
29	B50058	1	–	Slide Box – PS
	B50074	–	1	Slide Box – PS
30	B61416	6	8	5/8-11 x 7-3/8 Spade Bolt G8
31	B61398	2	–	13 OAL x 2 OD x 5/16 Extension Spring
32	23039	4	8	Trip Spring
33	B61385	2	2	5/8 x 3 Clevis Pin
34	90601	2	2	1/4 x 1-1/2 Cotter Pin
35	B51009	2	–	3/4 x 9 Wing/Slide Box Pivot Pin
	B13307	–	2	1 x 11-1/8 Wing/Slide Box Pivot Pin
36	B61425	2	–	2-51/64 OD, 2-9/32 ID x 1/2 Black Polyethylene Plug
37	B60347	2	–	Hydraulic Cylinder, Slide Box Extend/Retract
	B60207	–	2	Hydraulic Cylinder, Slide Box Extend/Retract
38	91337	2	8	5/8-11 Locknut
39	B60007	4	–	9/16-18 Male ORB Hydraulic Adapter
	B60272	–	4	9/16-18 45° Adjustable Elbow ORB Hydraulic Adapter
40	B60224	4	4	3/8 x 36 Slide Box Extend/Retract Hydraulic Hose
41	B61198	2	2	5/8 ID, 3/4 OD x 1 Black Vinyl Cap
42	B11989	2	2	5/8 x 11-1/2 Slide Box Extend/Retract Hydraulic Cylinder Base End Pin
43	B61030	2	2	1/8 x 2-5/8 Hair Cotter Pin
45	90576	4	6	5/8 Hardened Washer

G = Grade

# A-FRAME, PIVOT BEAM & MANIFOLD PARTS – ALL MODELS



Item	Part	Qty		Description
		810SS	8611SS	
1	B52141	1	–	Pivot Beam
	B41052	–	1	Pivot Beam
2	90601	4	4	1/4 x 1-1/2 Cotter Pin

G = Grade

## A-FRAME, PIVOT BEAM & MANIFOLD PARTS – ALL MODELS

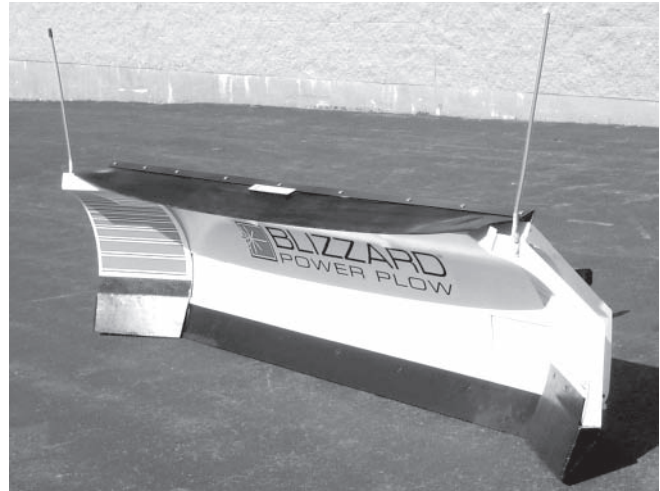
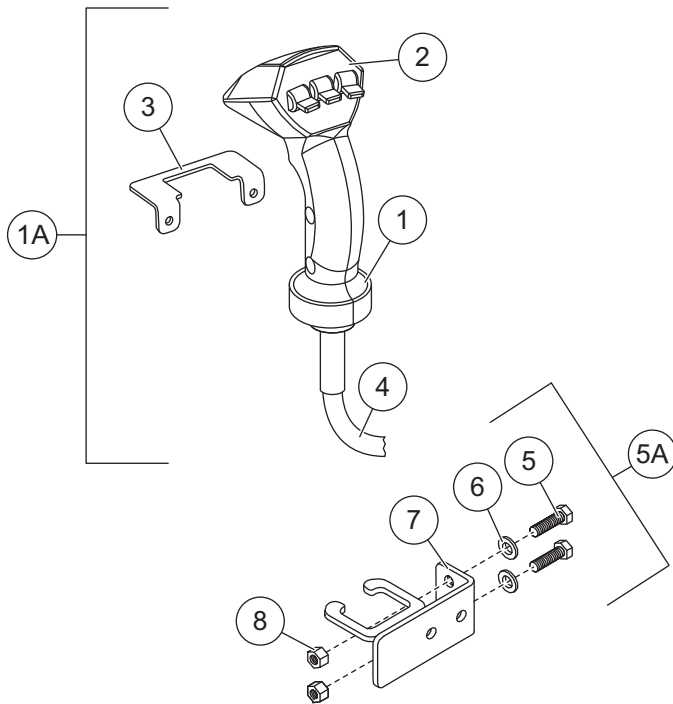
Item	Part	Qty		Description
		810SS	8611SS	
3	B50069	2	2	3/4 x 3 Clevis Pin
4	95739	4	4	3/4 x 5 Clevis Pin
5	B61330	1	1	1-8 x 9 Hex Cap Screw G8
6	B61008	1	1	1-8 Top Locknut GC Distorted Thread
7	B61217	4	4	1-1/2 ID, 2-1/8 OD Black Rubber Grommet, 60 Durometer
8	B60029	2	–	Hydraulic Cylinder, Snowplow Angle
	B60324	–	2	Hydraulic Cylinder, Snowplow Angle
9	B60223	2	–	3/8 x 26 Snowplow Angle Hydraulic Hose
10	B60224	4	6	3/8 x 36 Snowplow Angle Hydraulic Hose
11	56590	2	2	9/16-18 90° Adjustable Elbow Hydraulic Adapter ORB
12	B70143	1	1	A-Frame Rubber Mat
13	B70134	1	1	A-Frame Cover Plate
14	90055	3	3	3/8-16 x 1-1/4 Hex Cap Screw G8
15	29233	7	7	3/8 SAE Hardened Washer
16	B61514	2	2	3/8-16 x 4 Hex Cap Screw G5
17	66439	1	1	3/8-16 x 1-1/2 Hex Cap Screw G5
18	B61307	1	1	3/8 Internal/External Tooth Lock Washer
19	B60086	2	2	3/4 x 78 Hydraulic Hose
20	B70132	1	1	A-Frame
21	B61034	3	3	3/8-16 Hex Locknut GC
22	B61275	7	7	3/8-16 U-Nut
23A	B60341	1	–	Manifold Assy
	B60342	–	1	Manifold Assy
ns	B60491	1	1	Pump/Manifold Kit (Incl. B60402 [1], B60447 [1], B60448 [1], B62039 [1], B61011 [2], B61412 [2], B61312 [2], B61637 [2], 56805 [4])
23	B60354	1	–	Manifold Block (with Cross Port Relief), Clear Anodized Aluminum
	B60355	–	1	Manifold Block (with Cross Port Relief), Gold Anodized Aluminum
24	B60089	2	2	1-1/16-12 Male ORB Connector Hydraulic Adapter
25	B60320	1	1	Spool Valve 2-Way
26	B60356	1	1	Back Pressure Check Valve 5 psi
27	B60183	1	1	Pressure Compensation Regulation Valve
28	B60225	4	4	Check Valve 50 psi
29	B60272	6	6	9/16-18 Adjustable Elbow Hydraulic Adapter
30	B60279	2	–	Relief Valve, 1500 psi
	B60227	–	2	Relief Valve, 2650 psi
31	B60168	1	1	Relief Valve, 3000 psi
32	B62163	5	5	Coil, PDL 12V DC
33	B60166	4	4	Spool Valve, 3-Way, 2-Position
34	B60052	5	5	1/2-20 Hex Jam Nut
35A	B62161	1	1	Coil Harness Assy (Incl. Items B62045, B62118 [2], B62116 [5], B62096 [7], B62097 [7], Items 32–36)
35	B60321	1	1	Spool Valve, 4-Way, 3-Position
36	B62164	2	2	Coil, LDL 12V DC
37	B60278	2	–	Relief Valve 1700 psi
	B60226	–	2	Relief Valve 2800 psi
38	B60049	2	2	SAE Hollow Hex Plug ORB
39	B61203	1	1	1" Washer
ns	B63196	1	1	Label – SS/TR Hydraulic Hose Guide
ns	B60322	2	2	Piston Assy

G = Grade

ns = not shown



## CONTROL, ACCESSORIES & KITS – ALL MODELS



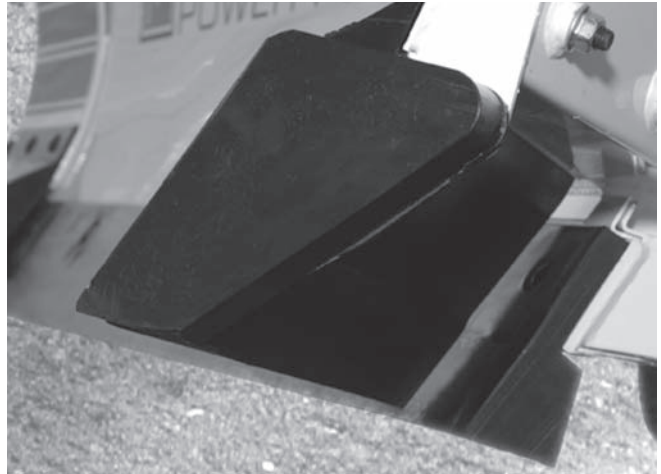
9. Rugged and durable, the 3/8" thick, 2-ply construction keeps snow off your windshield and in its place—on the ground! The one piece rubber design allows for wing clearance and provides optimum snow deflection. The deflector is shipped with a POWER PLOW® vinyl decal and complete mounting hardware.

Control				
Item	Part	Qty		Description
		810SS	8611SS	
1A	B62131	1	1	Pistol Grip Control Wire Harness Assy (Incl. Items 1–5A)
ns	B62132	1	1	Wire Harness Extension, Vehicle-Side
ns	B62133	1	1	Weather Cap, Vehicle-Side Wire Harness Extension
ns	B62134	1	1	Wire Harness Extension, Snowplow-Side
ns	B62135	1	1	Weather Cap, Snowplow-Side Wire Harness Extension
ns	B62045	2	2	Connector, Electric, Male, Plastic
ns	B62097	17	17	Terminal, Male (18–16 AWG)
ns	B62096	35	35	Seal, Cable, Silicone, Orange (18 AWG)
ns	B62116	5	5	Plug, Cavity, Silicone, White (18–16 AWG)
ns	B62046	2	2	Connector, Electric, Female, Plastic
ns	B62100	2	2	Terminal, Ring #10 (22–18 AWG)
ns	B62093	18	18	Terminal, Female (18–16 AWG)
ns	B62118	1	1	3/8 End Ring Terminal
ns	B62072	1	1	3/8 End Ring Terminal Snowplow Side Wire Harness Extension
ns	B62218	1	1	Harness, SS Snowplow Side Extension 4'
1	B62219	1	1	Housing, SS Pistol Grip 2 Halves w/Screws (B61613)
2	B62211	1	1	Circuit Board and 3-Switch Assy
3	B70040	1	1	Mount Bracket, Vehicle Side
4	B62210	1	1	Harness, Control w/Pipe SS
5A	B70048	1	1	Pistol Grip Control Mount Bracket Kit (Incl. Items 5–8)
	90055	2	2	3/8-16 x 1-1/4 Hex Cap Screw G8
	29233	2	2	3/8 Hardened Washer
	B70049	1	1	Mount Bracket, Pistol Grip Control
	91333	2	2	3/8-16 Hex Locknut GB
G = Grade		SS = Stainless Steel		ns = not shown

## CONTROL, ACCESSORIES & KITS – ALL MODELS



10. Integrate all snowplow controls into your skid steer using an optional auxiliary control harness. This 7-foot braided harness connects easily to your existing manifold harness on one end and your skid steer on the other. Assembly of the harness wiring to your skid steer-specific auxiliary electrical controls required. Electrical connector not provided with harness.



12. Durable and long lasting, the POWER PLOW polyurethane moldboard and wing cutting edges will keep you plowing longer and safer! Specially formulated for snow plowing applications, BLIZZARD® poly edges resist gouging, provide superior wear life and effectively reduce plowing noise. Ideal for all plowing conditions. Edges are shipped with mounting hardware.



11. Beef-up your POWER PLOW® snowplow with our 3/8" thick wing cutting edges. These edges are built to withstand heavy snowplow use on the roughest road surfaces and also provide added material for protection against sidewalk curb wear. Mounting hardware included.



13. Putting your snowplow away for the winter? Have a deep scratch to cover? Clean up your blade and snowplow parts with our gloss spray paints. BLIZZARD touch-up paint provides an excellent finish to help keep your snowplow looking its best. Paint provided in 12 oz spray cans.

## CONTROL, ACCESSORIES & KITS – ALL MODELS

<b>Accessories</b>				
Item	Part	Qty		Description
		810SS	8611SS	
9	B61241	1	–	Rubber Snow Deflector w/Hardware
	B52087	–	1	Rubber Snow Deflector w/Hardware
10	B62162	1	1	Auxiliary Control Harness w/Diodes
11	B61288	1	–	3/8" Wing Cutting Edges w/Hardware (T1)
12	B61536	1	–	Polyurethane Moldboard and Wing Cutting Edges w/Hardware
	B61539	–	1	Polyurethane Moldboard and Wing Cutting Edges w/Hardware
13	B61219	1	1	POWER PLOW® High Performance 12 oz Spray Paint, Gloss White
	B63073	1	1	POWER PLOW High Performance 12 oz Spray Paint, Gloss Black
<b>Kits</b>				
ns	B61277	1	–	Hardware Kit, Snowplow Assy Parts
	B61479	–	1	Hardware Kit, Snowplow Assy Parts
ns	B60454	1	–	Hydraulic Adapter Kit (Incl. Items B60005 [2], B60007 [4], B60089 [2], B60272 [6])
	B60453	–	1	Hydraulic Adapter Kit (Incl. Items B60005 [2], B60089 [2], B60272 [10])
ns	B60456	1	–	Hydraulic Hose Kit (Incl. Items B60086 [2], B60223 [2], B60224 [4])
	B60455	–	1	Hydraulic Hose Kit (Incl. Items B60086 [2], B60224 [6])
ns	B61430	1	1	Hardware Kit, Moldboard Cutting Edge
ns	B52067	1	–	Cutting Edge Kit, Moldboard w/Hardware
	B52095	–	1	Cutting Edge Kit, Moldboard w/Hardware
ns	B61431	1	–	Hardware Kit, Wing Cutting Edge
	B61387	–	1	Hardware Kit, Wing Cutting Edge
ns	B51104	1	–	Kit, Wing Cutting Edges w/ Hardware
	B51103	–	1	Kit, Wing Cutting Edges w/ Hardware
ns	B60360	1	–	Combo Seal Kit, Cyl B60029/B60065
ns	B60365	–	1	Combo Seal Kit, Cyl B60207
ns	B60366	–	1	Combo Seal Kit, Cyl B60221/B60324
ns	B60373	1	–	Combo Seal Kit, Cyl B60347
ns	96028	1	–	Moldboard Label Pack
ns	96032	–	1	Moldboard Label Pack
ns = not shown				



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