



Model 810, 8611LP & 8611 POWER PLOW™ Snowplows

Installation Instructions & Owner's Manual

A CAUTION

See your BLIZZARD® sales outlet/website for specific vehicle application recommendations before installation. The Power Match selection system has specific vehicle and snowplow requirements.

A CAUTION

Read this document before installing the snowplow.

A CAUTION

Read this document before operating or servicing snowplow.

This manual supersedes all editions with an earlier date.

Congratulations on purchasing the most advanced 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 may require.

If you have not already done so, please visit www.blizzardplows.com to register your new POWER PLOW snowplow.



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SAFETY DEFINITIONS

A WARNING

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

A 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.

MOUNT INSTRUCTIONS Read Owner's Manual for Complete Instructions. STEP #1 Complete Instructions A WARNING: Keep Instructions A W

AWARNING

Multiple Pinch Points

POWER PLOW™ &

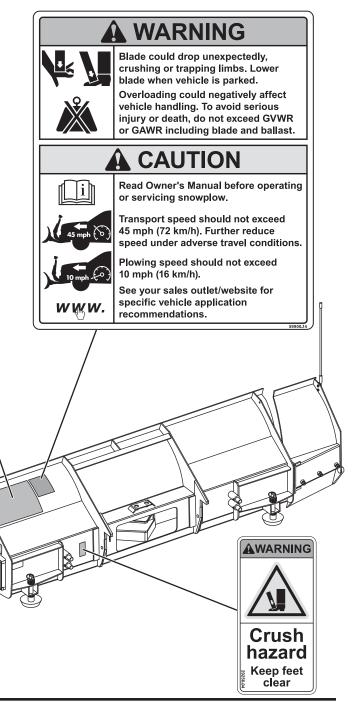
SPEEDWING™ Blades Only

(both sides)

WARNING/CAUTION AND 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.



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.

A WARNING

Lower the blade when the 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.

A WARNING

You can die or be seriously injured. Keep hands and feet away from hitch mechanism and snowplow blade when operating the POWER HITCH™ arm. The action of the arm moves the snowplow toward the vehicle and into position for proper attachment.

A WARNING

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

A WARNING



Do not exceed GVWR or GAWR including the blade and ballast. The rating label is found on the driver-side vehicle door cornerpost.

A 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.

A WARNING

Remove blade assembly before placing vehicle on hoist.

A CAUTION

Read Owner's Manual before operating or servicing snowplow.

A CAUTION

Transport speed should not exceed 45 mph (72 km/h). Further reduce speed under adverse travel conditions.

A CAUTION

Plowing speed should not exceed 10 mph (16 km/h).

A CAUTION

See your BLIZZARD® outlet for application recommendations.

HYDRAULIC SAFETY

A 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 automotive-style 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 could 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.

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 handy, rated BC 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, text messaging devices, pagers, or two-way radios.

VENTILATION

A WARNING

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

BATTERY SAFETY

A 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.

VIBRATION

Operating snowplow vibration does not exceed 2.5 m/s² to the hand-arm or 0.5 m/s² to the whole body.

VEHICLE APPLICATION INFORMATION

VEHICLE APPLICATION RECOMMENDATIONS

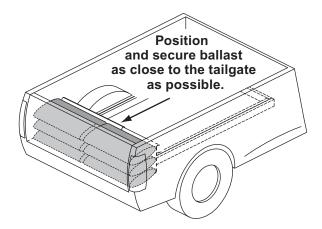
A CAUTION

See your BLIZZARD® outlet for specific vehicle application recommendations before installation. The Power Match selection system 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 Power Match selection system 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.

BALLAST REQUIREMENTS



Ballast (additional weight) is an important part of qualifying vehicles for snowplow eligibility. Rear ballast must be used when necessary to remain in compliance with axle ratings and ratios as specified by the vehicle manufacturer.

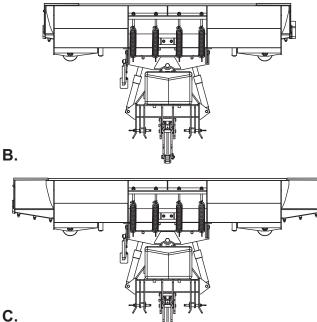
If ballast is required, it is important that it be secured properly behind the rear axle. A ballast retainer kit is available from your BLIZZARD outlet, PN 62849.

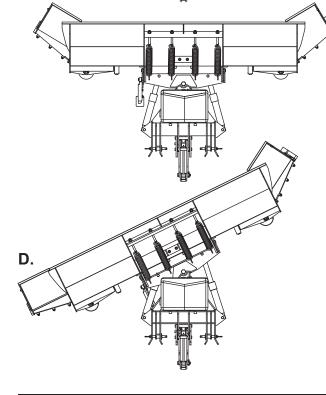
NOTE: The ballast retainer kit is for snowplow vehicles requiring ballast. See your BLIZZARD outlet for the correct amount of ballast required. Include the weight of the retainer as part of the ballast requirement. Sand bags are recommended for use as ballast.

NOTE: Ballast recommended and its weight calculations assume the entire width of the bed is filled as close to tailgate as possible.

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. 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

A CAUTION

Always transport POWER PLOW snowplow with both wings fully retracted.

NOTE: To prevent premature failure of the power contactor (solenoid), return the joystick to its neutral (center) position, or release the touchpad button, immediately after the blade reaches the limit of any position. Continuing to hold the control after the blade has reached the limit of movement in any position will reduce the life of the solenoid.

UNPACKING & INSPECTION

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 Support Department at 1-888-680-8600.

Begin unpacking and inspection in the following order:

- Remove the shipping document from the end panel of the pallet wrap. Retain all documentation for your records.
- All wood framing and polyethylene material should be removed from the pallet for easy access to the snowplow.
- 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: |
|-------------------------------|
| Distributor: |
| Distributor Phone Number: |
| |
| Snowplow Serial Number: |
| Hydraulic Pump Serial Number: |

Register your snowplow online at www.blizzardplows.com.

TORQUE SPECIFICATIONS

TORQUE CHART

A 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

| S | SAE J429 Grade 5 Torque Values | | | | AE J429 Grade | 8 Torque Value | es |
|-------------|--------------------------------|--------------|-----------|-------------|---------------|----------------|-----------|
| Nominal | Clamp Loads | Tightenin | g Torque | Nominal | Clamp Loads | Tightenin | g Torque |
| Thread Size | (lb) | "Lubricated" | "Dry" | Thread Size | (lb) | "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 M | etric-Grade | 10.9 Bolt |
|------|-------|----------------|-------|-------------|-----------|
| | | | | | |

| Metric Class 8.8 Torque Values | | | | N | Metric Class 10. | 9 Torque Value | S |
|--------------------------------|-------------|--------------|-----------|----------|------------------|----------------|-----------|
| Diameter | Clamp Loads | Tightenin | g Torque | Diameter | Clamp Loads | Tightenin | g Torque |
| (mm) | (lb) | "Lubricated" | "Dry" | (mm) | (lb) | "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

| | JIC Flare Torque Values | | | | |
|-------|-------------------------|------------------|--|--|--|
| Turns | Size | ft-lb min-max | Assembly Steps | | |
| N/A | -02 | 6–7 | Make sure that the tubing and threads are clean. | | |
| N/A | -03 | 8–9 | Lubricate the threads with 10W hydraulic fluid. | | |
| 2 | -04 | 11–12 | Hand tighten the nut/sleeve to approximately 30 in-lb. | | |
| 2 | -05 | 14–15 | Make alignment marks on the nut and fitting. | | |
| 1-1/2 | -06 | 18–20 | Tighten to turn or torque specification. | | |
| 1-1/2 | -08 | 36-39 | When fully tightened, make a second set of alignment marks at the fully tightened position. | | |
| 1-1/2 | -10 | 57–63 | when fully lightened, make a second set of alignment marks at the fully lightened position. | | |
| 1-1/4 | -12 | 79–88 | NOTE: Torque values specified are for threads lubricated with 10W hydraulic fluid. | | |
| 1 | -14 | 94–103 | Overtightening will reduce the clamping force resulting in loss of seal and reduction of flow. | | |
| 1 | -16 | 108–113 | ever agricining will reduce the damping love resulting in loss of sear and reduction of new. | | |
| 1 | -20 | 127–133 | | | |
| 1 | -24 | 158–167 | | | |
| 1 | -32 | 245-258 | | | |

| | O-Ring Boss Torque Values | | | | |
|------|---------------------------|--|--|--|--|
| Size | ft-lb min-max | Assembly Steps | | | |
| -02 | 6–7 | 1. Verify that the port, O-ring, sealing surfaces and threads are clean and free of damage. | | | |
| -03 | 8–10 | 2. Lubricate the threads and the O-ring with 10W hydraulic fluid. | | | |
| -04 | 13–15 | 3. For an adjustable ORB, completely back off the locknut and washer. | | | |
| -05 | 17–21 | 4. Hand tighten the fitting until it contacts the port spotface. Point the elbow or tee in the desired | | | |
| -06 | 22–25 | direction and hold. | | | |
| -08 | 40-43 | 5. Torque to specification. | | | |
| -10 | 43-57 | | | | |
| -12 | 68–75 | NOTE: Torque values specified are for threads lubricated with 10W hydraulic fluid. | | | |
| -14 | 90-99 | | | | |
| -16 | 112–123 | | | | |
| -20 | 146-200 | | | | |
| -24 | 154–215 | | | | |
| -32 | 218–290 | | | | |

Lit. No. B64089, Rev. 12 11 April 15, 2021

 Remove the dust cap from both of the slide box cylinders located at the center/rear of the moldboard. Attach one 9/16" male ORB connector 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.

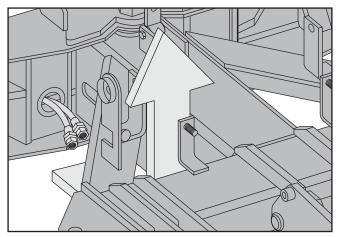


NOTE: The hoses that operate the retract functions (rod) of the cylinders are closest to the base of each cylinder. The hoses that operate the extend functions (base) of the cylinders are closest to the rod of each cylinder.

Connect hoses (49501) to each of the hydraulic adapters on the cylinders. Tighten hoses per torque chart.

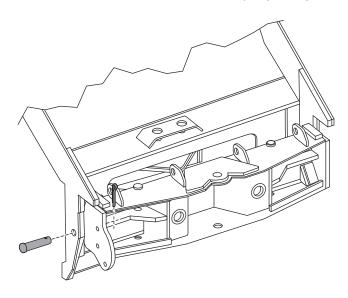
NOTE: Review the label on each hose for the appropriate part number.

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.

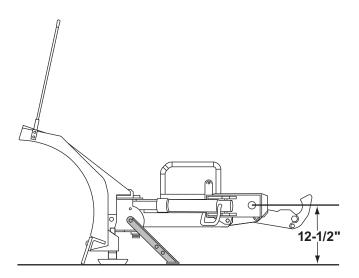


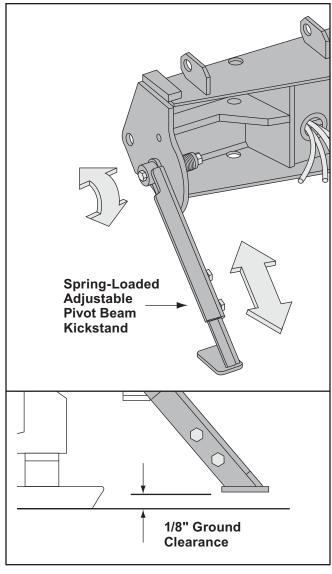
Feed each group of hoses (two per side) through the grommets in the pivot beam and up through the openings in the A-frame. Positioning the hoses through the pivot beam supports the hoses while the snowplow is in use and prevents them from dragging on the ground.

4. 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) or 1" x 3-1/4" clevis pin (B61717) through each mounting hole and secure it with a 1/4" x 1-1/2" cotter pin (90601).



5. Mount the kickstand to the end of the pivot beam (driver-side) using the 1/2" x 4-1/2" carriage bolt provided. The spring, bushing, and locknut are located on the inside of the pivot beam. Review the diagrams below and to the right. To pivot the kickstand, pull the spring-loaded leg out and rotate it until the pin locks into place. Adjust the foot on the stand arm so that the foot is 1/8" from the ground when the A-frame is level and the A-frame mount points are 12-1/2" from the ground. Tighten both of the locknuts on the kickstand.

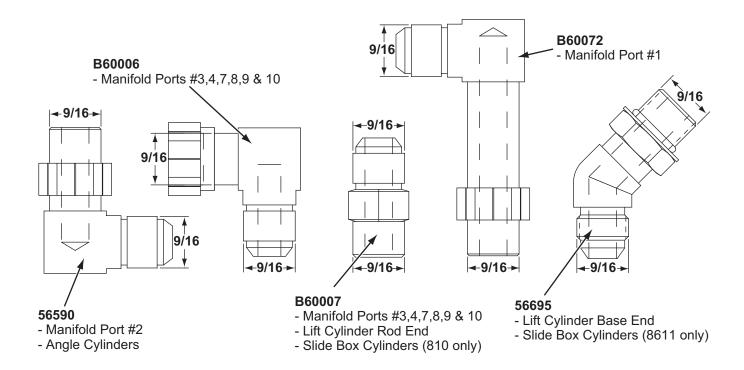




- 6. Position each angle cylinder with the rod end of the cylinder in the pivot beam and the hydraulic hose port facing away from the A-frame. Secure the cylinder to the pivot beam with a 3/4" x 5" clevis pin (B41051) and a 1/4" x 1-1/2" cotter pin (B61357). Extend each cylinder rod until the cylinder 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.
- 7. Remove the dust cap from both of the hydraulic angle cylinder ports and attach one 9/16" 90° adjustable elbow ORB adapter (56590) to each port. Each adapter should be angled toward the top of the moldboard. Connect one 3/8" x 24" (26" for 8611) hydraulic hose (B60091 or B60223) to each angle cylinder adapter. Be careful not to overtighten the hose connections. Route both hoses over the TOP of each cylinder. This will prevent them from hanging or being pinched. Tighten fittings and hoses per torque chart.
- 8. Remove the plastic dust caps from the hydraulic lift cylinder ports. Attach one 9/16" 45° adjustable elbow ORB adapter (56695) to the driver-side port (base end) and one 9/16" male ORB connector adapter (B60007) to the passenger-side port (rod end). Once the adapters have been installed on the cylinder, connect the hydraulic hoses. Tighten fittings and hoses per torque chart.

NOTE: Position the 45° fitting in the cylinder port so that the hoses install directly in the center of the A-frame access holes. A hose installed too close to the edge of the opening may work itself free with the operation of the lift cylinder and/or movement of the snowplow.

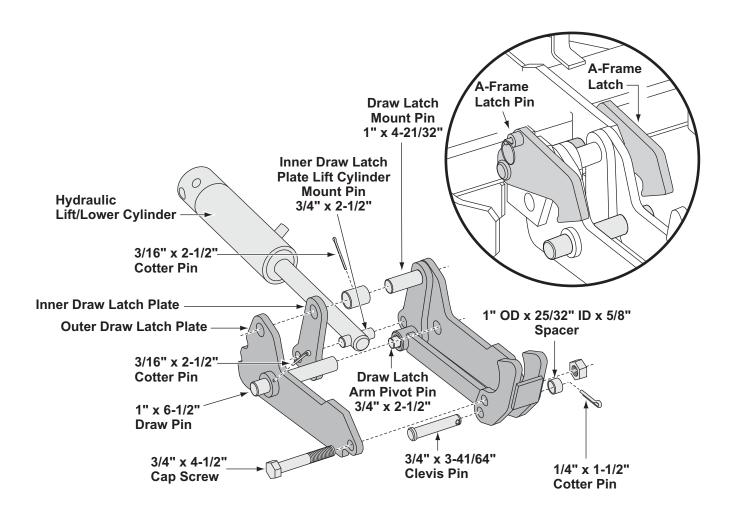
The 45° adapter receives a 3/8" x 17" hydraulic hose (**B60273**). Connect the 45° angle on the hose to the hydraulic adapter on the cylinder. The male connector adapter receives a 3/8" x 15" hydraulic hose (**B60274**). Connect the 45° end of the hose to the hydraulic adapter on the cylinder. Both hoses should be routed through the triangular openings in the A-frame. Tighten fittings and hoses per the torque chart.



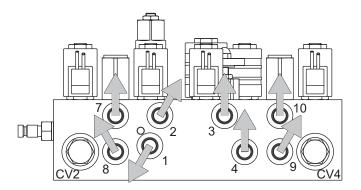
9. Remove the draw latch mount pin, spacer, and cotter pin from the draw latch assembly. By removing this pin, the inner draw latch plates can swing free. Remove the inner draw latch plate lift cylinder mount pin. Position the plates on either side of the lift/lower cylinder rod and insert the pin through the plates and cylinder rod. With the cylinder connected to the inner draw latch plates, rotate the draw latch assembly toward the draw latch mount holes on the A-frame. Align the holes in the outer draw latch plate with those of the inner draw latch plates and the A-frame.

NOTE: The A-frame latch, located at the rear/center of the A-frame, should be raised up to insert the draw latch mount pin. Pull the A-frame latch pull pin out and rotate the latch counterclockwise if it is locked into position.

Secure the assembly to the A-frame by replacing the draw latch mount pin, spacer, and cotter pin. Reset the A-frame latch so the A-frame latch pin locks into place.



10. Assemble the manifold. The manifold, pump and coil harness have been connected at the factory; however, the manifold contains several components that you will need to install prior to securing the assembly to the A-frame. Each of the hose ports on the manifold is covered with stretch wrap. Remove the wrap and install the appropriate fitting in its respective port. Tighten fittings and hoses per torque chart.



NOTE: The arrows shown on the manifold illustration indicate the direction the 90° adapters should be positioned to receive the hydraulic hoses.

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 hydraulic pump and manifold cover. 11. Align the mount holes in the pump with the holes in the hinged bracket, located on the A-frame.

NOTE: Before mounting the pump, angle the hinged bracket as needed and tighten the bracket hardware to lock it in place.

Secure with 3/8" x 3/4" cap screw and 3/8" flat washer through the top mount hole in the bracket and into the pump. Insert 3/8" x 1-3/4" threaded stud with 3/8" locknut through the bottom mount hole in the bracket and into the pump. The threaded stud should bottom out in the pump.

NOTE: When installing the manifold between the mount brackets on the A-frame, hold the manifold at the sides of the block. Never handle the manifold by the coils. Doing so can cause a solenoid cartridge to bend, causing the cartridge to stick when activated.

NOTE: A medium-strength threadlocking compound should be used on both of the pump mount fasteners.

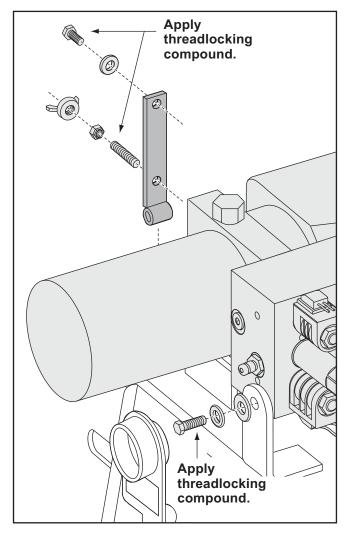
12. Connect the hydraulic hoses to their respective adapters on the manifold. Hose PN B60091 or B60223 Ports #1 and #2, Hose PN B60273 Port #3, Hose PN B60274 Port #4, Hose PN 49501 Ports #7 and #10, Hose PN 49501 Ports #8 and #9. Tighten hoses per torque chart.

NOTE: All hoses, except #1 and #2 (angle cylinders) should be routed through the triangular openings in the A-frame. Position these hoses over the A-frame angle and to their respective manifold ports.



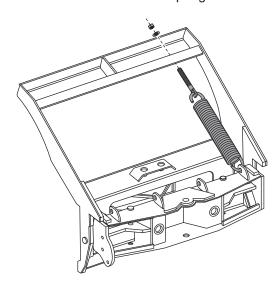
NOTE: The hoses that operate the retract functions (rod) of the cylinders are closest to the base of each cylinder. The hoses that operate the extend functions (base) of the cylinders are closest to the rod of each cylinder.

13. Secure the manifold to the A-frame. Remove the washers, split lock washers, and cap screws from the manifold and align the mount holes with the A-frame brackets. Properly replace and tighten all hardware.



NOTE: A medium-strength threadlocking compound should be used to secure the manifold mount fasteners.

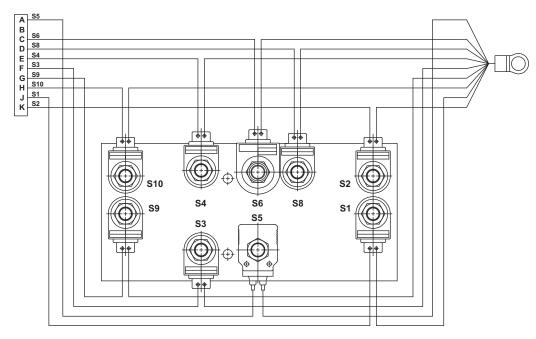
14. Hook each extension spring to the receiving holes on the pivot beam and attach the opposite end of the spring to its respective spade bolts. Install the spade bolts through the extension spring mounting angle on the top rear of the blade. Secure each spade bolt by placing one 5/8" flat washer on 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.



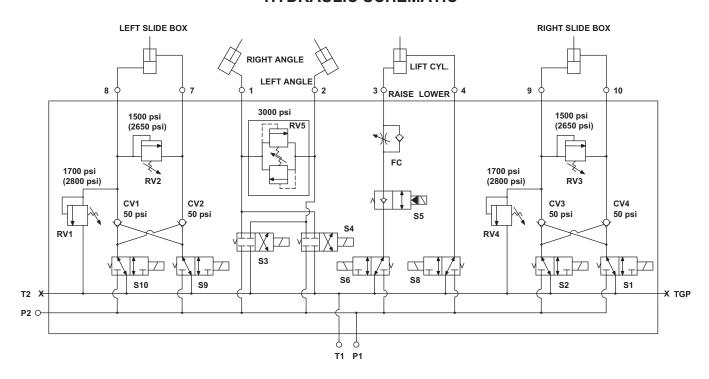
15. Install the blade guides at each end of the moldboard. Insert the cap screw through the holes at the top of the wing reinforcement rib. Tighten all screws with locknuts.



ELECTRICAL SCHEMATIC



HYDRAULIC SCHEMATIC

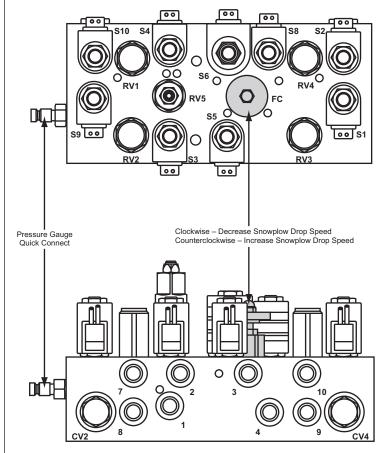


NOTE: Where applicable, Model 8611 values are in parentheses.

Hydraulic Valve & Hose Port Guide

Models 810 & 8611

If being used with auxiliary hydraulics, recommended for systems 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 | | | |
| 3 | Raise – Lift Cylinder (Base) | | | |
| 4 | Lower – Lift Cylinder (Rod) | | | |
| 7 | Driver-Side Slide Box Retract | | | |
| 8 | Driver-Side Slide Box Extend | | | |
| 9 | Passenger-Side Slide Box Extend | | | |
| 10 | Passenger-Side Slide Box Retract | | | |
| RE | LIEF & 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 CV2

CV3

Driver-Side Wing Check Valve

Driver-Side Slide Box Check Valve Passenger-Side Wing Check Valve

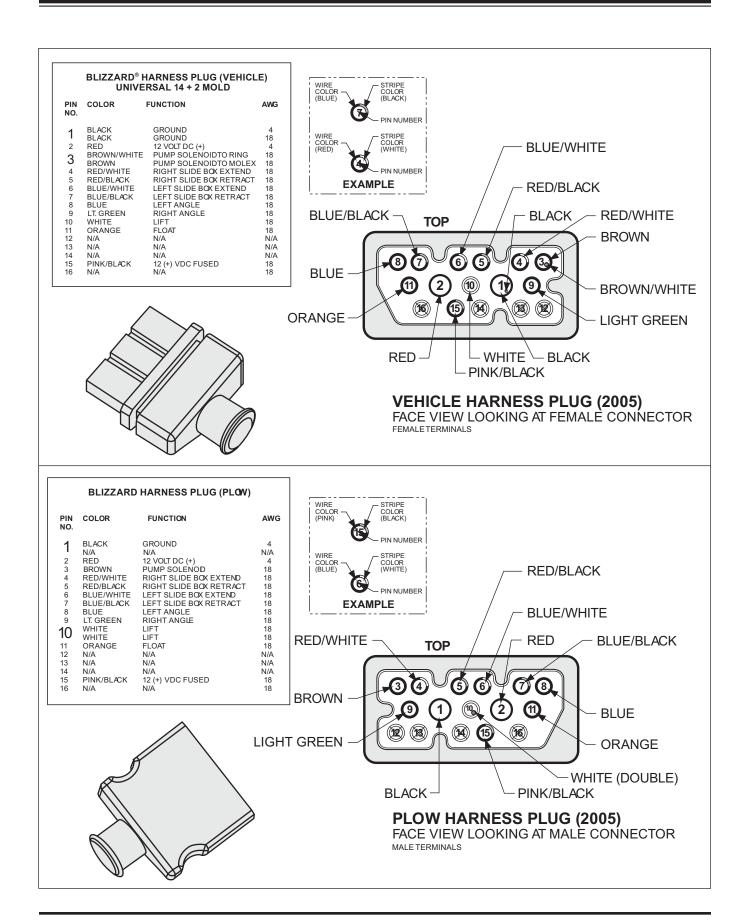
Passenger-Side Slide Box Check Valve

| VARIAB | VARIABLE FLOW CONTROL VALVE | | | | |
|--|---|--|--|--|--|
| Valve | Function | | | | |
| FC | Snowplow Drop Speed Adjustment | | | | |
| NOTE: Energize | the following solenoids for the functions: | | | | |
| \$1 \$2 \$3 \$4 \$5 \$6 | Passenger-Side Slide Box Retract Passenger-Side Slide Box Extend Angle Left – Passenger-Side Cylinder Angle Right – Driver-Side Cylinder Float Raise – Lift Cylinder (Base) | | | | |
| S5 & S8 S9 S10 | Lower – Lift Cylinder (Rod) Driver-Side Slide Box Retract Driver-Side Slide Box Extend | | | | |



B63100

Lit. No. B64089, Rev. 12 19 April 15, 2021



ELECTRICAL INSTALLATION — SNOWPLOW SIDE

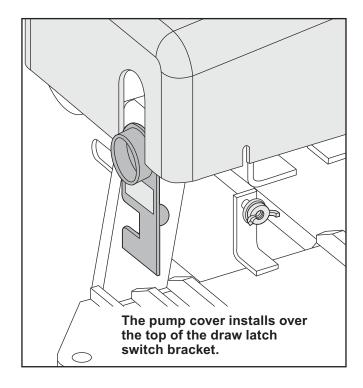
- Connect the red power wire from the snowplow harness to the pump motor terminal stud. Hardware provided on pump.
- 2. Place the 3/8" lock washer, the black ground wire (from the harness), and the red ground wire on the coil harness (from the manifold) over the tapped hole on the pump and secure with 3/8" x 3/4" screw.
- 3. Remove the nut and washer from the POWER HITCH™ connect/disconnect toggle switch and insert it through the back of the mounting bracket on the A-frame. Align the notches on the switch and bracket. Replace the washer and nut, and tighten until the switch is firmly in place. Attach the connector on the snowplow harness to the switch.

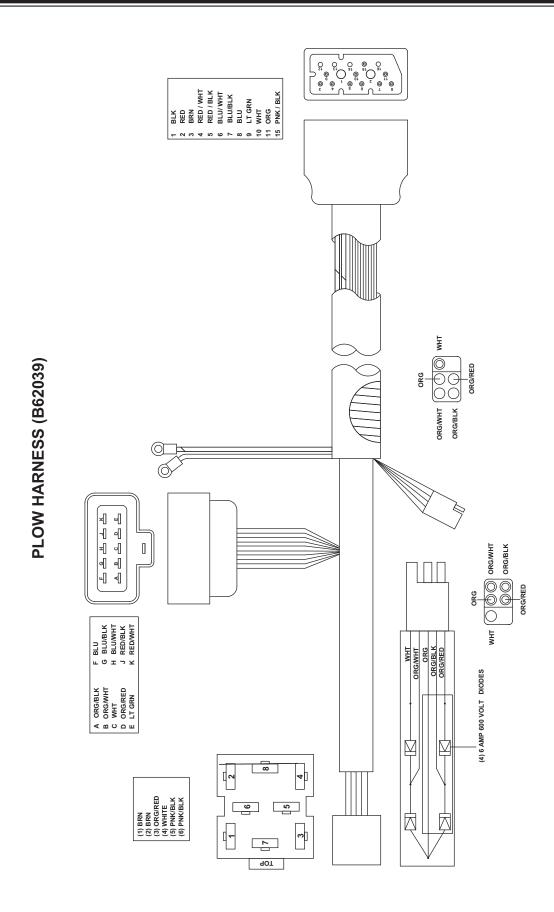
NOTE: Use caution when connecting. Switches can break if this is done forcefully.

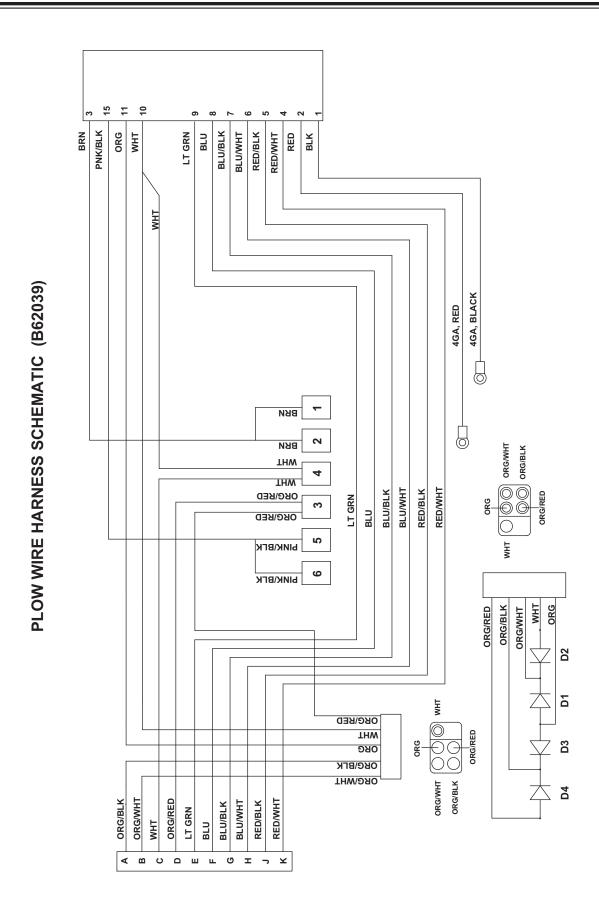
- 4. Attach the connector on the harness to the connector on the coil harness.
- 5. Position the harness braid in the notch on the switch bracket and secure it with a cable tie.

NOTE: The diode loop harness should be inside of the pump cover.

6. Install the pump and manifold cover by aligning the notches in the cover with the welded bolts on the A-frame brackets. Secure with clamping knob. Verify that the cover is positioned over the protective toggle switch hood. Pop the front of the cover on the threaded stud and secure it with the remaining knob.







ELECTRICAL INSTALLATION — VEHICLE SIDE

A CAUTION

Before drilling any holes, check the selected area for wires, hoses, or other obstructions.

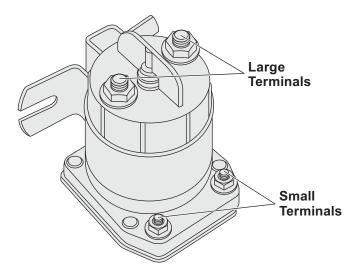
1. With the large plug on the electrical harness placed near the tow hook, under the bumper, route the harness over the driver-side fender well and to the fire wall. Insert the connector end of the harness through an existing hole in the fire wall and into the vehicle cab. If an access hole does not exist, drill an appropriately sized hole through the fire wall in a convenient location away from sharp edges and hot or moving parts.

NOTE: Keep the snowplow plug and vehicle connector pins lubricated with a liberal amount of dielectric grease. Always replace the protective weather caps when the snowplow is disconnected from the vehicle.

2. Attach the power contactor (solenoid) to the driver-side wheel well or engine fan guard using #12 x 3/4" self-drilling screws.

NOTE: Some model vehicles provide mounting locations for accessory components.

Always mount the solenoid with the terminals facing up, for extended solenoid life. Connect the 24" black ground wire to either small terminal on the solenoid and attach the opposite end to the vehicle with a self-drilling screw. Cut the brown/white pump activation wire on the harness to length. Strip the end of the harness and crimp



the eyelet terminal onto it. Attach the eyelet to the remaining small terminal on the contactor. Secure it with the hardware provided on the solenoid.

NOTE: Do not fasten the harness to areas that come in contact with moving engine parts or become extremely hot. The harness could become tangled and/or melt causing electrical failure and vehicle damage.

 Connect the vehicle harness ground wire to the NEGATIVE (-) terminal on the vehicle's battery. Cut the plain wire to length and strip the end of the wire. Crimp and solder a 3/8" ring terminal on the wire.

NOTE: The harness should be secured to the vehicle prior to taking the necessary measurement.

Measure the distance needed for the power wire to reach the solenoid. Strip the wire, then crimp and solder an end ring terminal to it. Connect the power wire to either large terminal on the solenoid.

- 4. Strip both ends of the remaining length of red wire, then attach and solder an end ring terminal to both. Connect one end of the wire to the open terminal on the solenoid and the remaining end to the POSITIVE (+) terminal on the battery.
- 5. Position the main lighting harness with both of the truck headlamp connectors near each truck headlamp and the snowplow headlamp connectors near the grille of the vehicle.
- 6. Plug the headlamp ground/relay connector from the vehicle harness into the connector on the main lighting harness. Securely mount the relay receptacles to the vehicle with the terminal wires facing down and the relays facing up. Installing the relays in this position will allow moisture to drain from the relay.

ELECTRICAL INSTALLATION — VEHICLE SIDE

- 7. Remove the front signal lamp assembly from both sides of the vehicle. On the driver's side, feed the violet (turn lamp) and gray (run lamp) wires from the main lighting harness through the opening in the signal lamp housing. Use a test light or ohmmeter to determine the proper wires in the vehicle's electrical system to splice into. Position one end of the turn or run lamp wire into the splice lock connector, and attach the vehicle wire into the opposite side. Complete the splice by pinching both wires together and locking the connector. Repeat the splice procedure for the remaining wire.
- 8. Repeat Step 7 for passenger's side, using the pink (turn lamp) and gray (run lamp) wires.
- 9. Connect the vehicle headlamps to the main lighting harness using a headlamp conversion harness kit. Due to differences in the construction of the kits, and the various make and model vehicles BLIZZARD® snowplows are installed on, a headlamp conversion kit is not packaged with your snowplow. Contact your local BLIZZARD outlet to obtain the appropriate conversion harness kit for your vehicle.
- 10. Secure the braided harness to the vehicle. Safely route all harness lengths around the engine components and attach them to the vehicle with cable ties. Extend the snowplow headlamp connectors from the main lighting harness through the grille of the vehicle and position the harness power plug and weather cap near the bumper. Cable tie the plug to the vehicle bumper or tow hook to keep the harness from hanging too low.
- 11. Install the remainder of the vehicle wire harness to the interior of the cab. Connect the power wire (with 15A fuse) to a switched power source with a minimum of 15A.

NOTE: The red power wire MUST be fused and switched ON and OFF with ignition.

Secure all loose wires under the dash.

- 12. Install the light tower. Position the arms into the receiving pockets located on the undercarriage. Each pocket has a lock pin that secures both light tower arms. Pull out and twist each handle to temporarily unlock the pins. Place the light tower into the pockets and relock the pins. See your local BLIZZARD outlet for complete installation instructions for your vehicle undercarriage.
- 13. Install the snowplow headlamps. Align one headlamp stud on the light tower tube with the mounting hole and insert the threaded stud through each. Secure the headlamp with one 1/2" galvanized washer (neoprene facing up), one 7/16" lock washer and nut.

NOTE: All snowplows are shipped with two caps that install on the ends of the light tower.

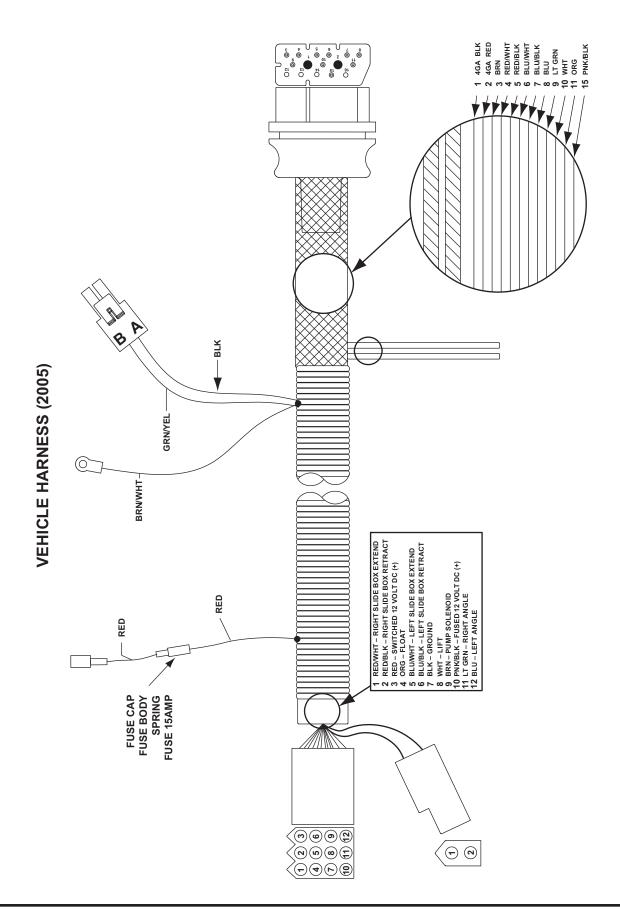
After adding a liberal amount of dielectric grease, connect the terminals from the snowplow headlamps to the terminals on the main lighting harness.

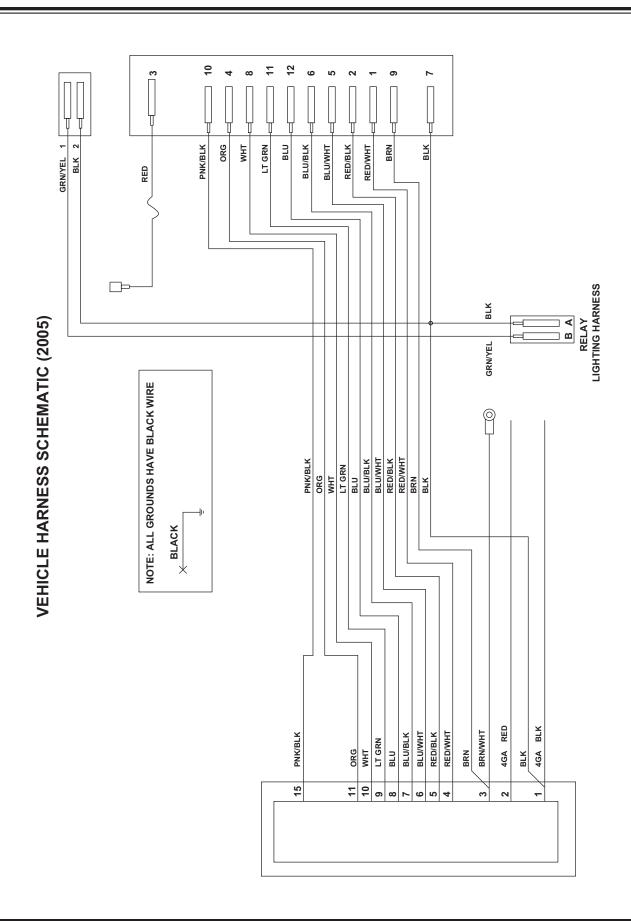
14. Position the rocker switch/joystick control station on the front radius of the seat. Wrap the hook-and-loop fastener strap around the bench, through the 2" D-ring and fasten. Connect the white power connector from the vehicle wire harness to the connector on the control station. The power switch should be in the middle, or "OFF," position.

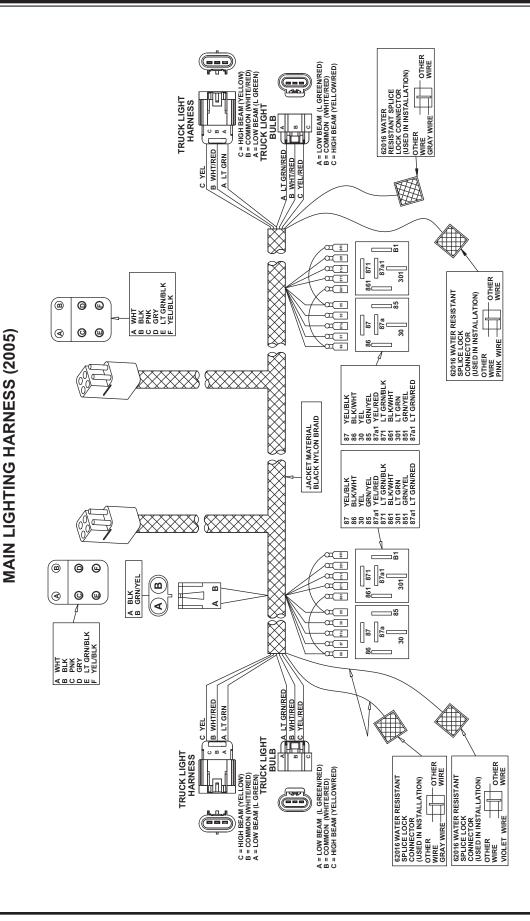
NOTE: The operation of the draw latch can only be controlled when the POWER switch is located in the POWER HITCH™ (UP) position and the RAISE/LOWER rocker switch on the A-frame is in the NEUTRAL (CENTER) position.

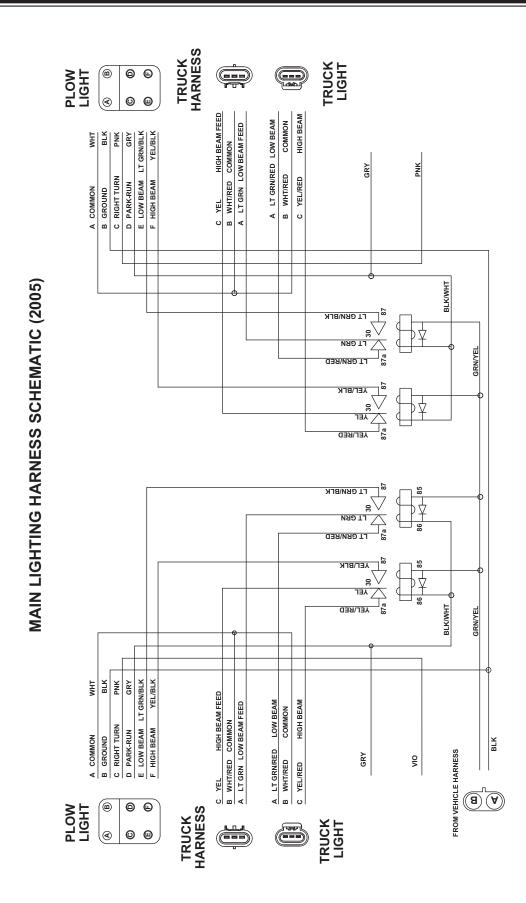
15. After completing the mechanical and electrical installations, test all snowplow and lighting functions before attempting to drive or plow.







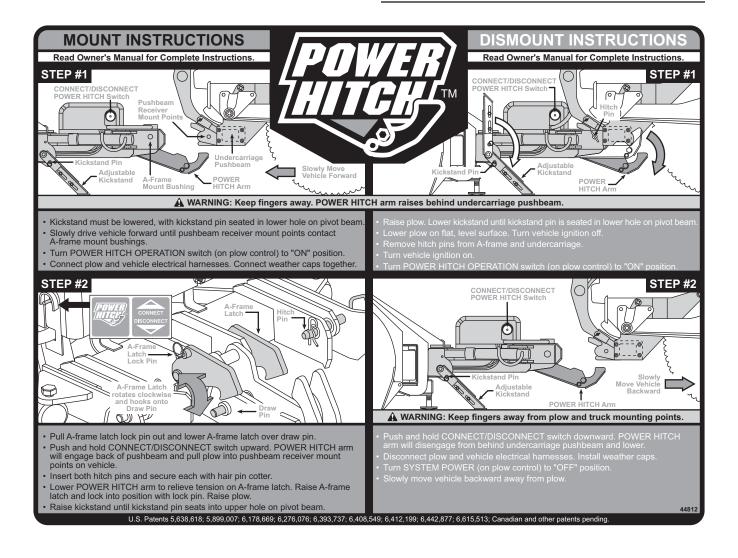




POWER HITCH™ SYSTEM INSTRUCTIONS

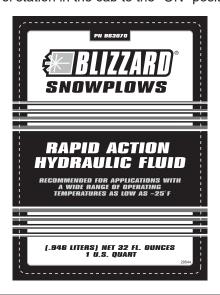
Prior to operating your POWER PLOW™ snowplow, review the Mount and Dismount Instructions label on the back of the driver-side moldboard.

NOTE: If at any time the Mount and Dismount Instructions label, or any other label attached to your snowplow, becomes illegible, promptly replace it.



TESTING YOUR SNOWPLOW

1. Fill the hydraulic pump reservoir with BLIZZARD® Rapid Action Hydraulic Fluid until it is approximately 3/4" from the top of the tank. Replace the cap on the reservoir. Remove the weather caps from each of the snowplow and vehicle harnesses and connect the plugs. Start the vehicle and turn the power switch on the control station in the cab to the "ON" position.



A WARNING

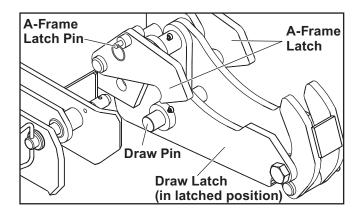
You can die or be seriously injured. Keep hands and feet away from hitch mechanism and snowplow blade when operating the POWER HITCH™ arm. The action of the arm moves the snowplow toward the vehicle and into position for proper attachment.

2. To raise the POWER HITCH arm on the snowplow, turn the power switch on the control station to the "UP" or "ON" position. Push and hold the toggle switch on the A-frame upward into the "CONNECT" position. Notice the action of the fluid in the reservoir. By activating the initial hydraulic function, the fluid begins to fill the system. Push and hold the toggle switch in the "DISCONNECT" position. The POWER HITCH arm will lower. Refill the reservoir until the fluid is approximately 3/4" from the top of the tank.

3. Align the POWER HITCH arm on the A-frame below the pushbeam, with the receiver plates in line with the receiver plates on the undercarriage. Pull out the A-frame latch pin and rotate the A-frame latch clockwise until the latch is resting on the draw pin. Move the snowplow in position by activating and releasing the POWER HITCH connect switch.

The POWER HITCH arm will rise until it hits the push beam and the draw latch fingers will pull the snowplow into the vehicle. The receiver plates on the snowplow and vehicle are now positively aligned. Insert the two hitch pins through the mounting holes on the A-frame and secure each with one hairpin cotter.

After the two hitch pins are inserted through the A-frame, lower the POWER HITCH arm using the toggle switch on the A-frame. Rotate the A-frame latch counterclockwise until the A-frame latch lock pin can be reinserted. Fully reinserting the A-frame latch lock pin will lock the A-frame latch in place for transport or plowing snow. (See below.)

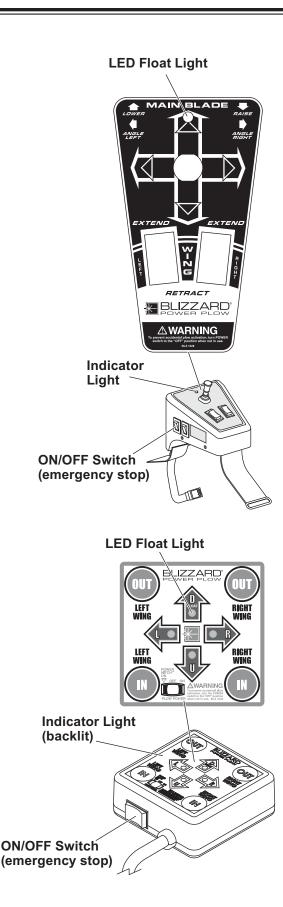


Return to the interior of the vehicle to test the remaining functions of the snowplow. The system power on the control should be in the "ON" position. Raise the snowplow to its maximum height by pulling the joystick back (or down) or pressing the U button on the touchpad. Initiate the driver-side wing by pushing and holding the LEFT WING EXTEND rocker switch on the joystick, or LEFT WING OUT button on the touchpad, until the wing pivots forward. Notice the staggered pace the wing extends. The hydraulic fluid is filling the hose and replacing the air in the system. Push and hold the LEFT WING RETRACT rocker switch on the joystick, or LEFT WING IN button on the touchpad, to return the wing. Continue testing the remaining rocker switch/button functions. To lower the snowplow to the ground, push the joystick ahead (or up) or push the D button on the touchpad.

NOTE: The FLOAT function is activated when the joystick is pushed ahead (or up) into the "LOWER" position or the D button is pressed on the touchpad and held there for an additional .5 second after the blade contacts the ground. The LED FLOAT light will come ON when the snowplow is in FLOAT mode.

Initiate the passenger-side wing by pushing and holding the RIGHT WING EXTEND rocker switch on the joystick, or the RIGHT WING OUT button on the touchpad, until the wing pivots forward. Push and hold the RIGHT WING RETRACT rocker switch on the joystick, or the RIGHT WING IN button on the touchpad, to return the wing. **With both wings retracted**, check the fluid level in the reservoir and fill to 3/4" from the top of the tank, if needed.

- 5. Check for fluid leaks around the manifold, pump, hydraulic hoses and all cylinders. If there are any leaks, turn OFF the power switch on the control and shut OFF the vehicle engine. Tighten any loose connections and/or fittings. Restart the vehicle, cycle through all blade controls, then check to see if all the leaks have been stopped, after turning OFF the control power switch and shutting OFF the vehicle.
- 6. Check that the vehicle and snowplow headlamps are in proper working condition, including the turn signals.

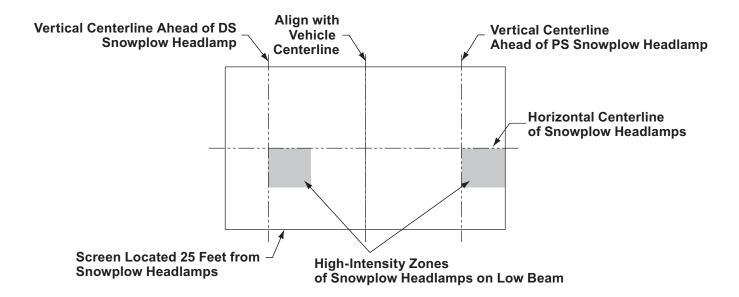


HEADLAMP AIMING

Fully tighten headlamp fasteners once correct visual aim is achieved.

- 1. Place vehicle on a level surface 25 feet in front of a matte-white screen, such as a garage door. The screen should be perpendicular both to the ground and to the vehicle centerline.
- The vehicle should be equipped for normal operation. The snowplow blade should be in place and in raised position. Below are steps listed by the Society of Automotive Engineers (SAE) pertinent to headlamp aiming in specification #SAE J599d.
- Prepare vehicle for headlamp aim or inspection.Before checking headlamp aim, the inspector will:
 - a. Remove ice or mud from under fenders.
 - b. Set tire inflation pressures to the values specified on vehicle information label.
 - c. Check springs for sag or broken leaves.
 - d. See that there is no load in the vehicle other than the driver and ballast as specified in the Power Match selection system.

- e. Check functioning of any automatic vehicle leveling systems and specific manufacturer's instructions pertaining to vehicle preparation for headlamp aiming.
- f. Clean lenses.
- g. Check for bulb burnout and proper beam switching.
- h. Stabilize suspension by rocking vehicle sideways.
- 4. Mark (or tape) the vertical centerline of the snowplow headlamps and the vertical centerline of the vehicle on the screen. Mark the horizontal centerline of the snowplow headlamps on the screen (distance from ground to snowplow headlamp centers).
- Align the top edge of the high-intensity zone of the snowplow lower beam below the horizontal centerline and the left edge of the high-intensity zone on the vertical centerline for each snowplow headlamp. (Refer to diagram below.)



MAINTENANCE

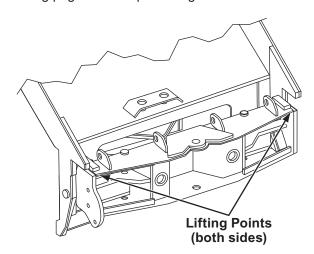
| Maintenance | Periodically | Yearly |
|---|--------------|--------|
| Check fasteners for tightness. Torque to specifications. | Х | |
| Check hoses for wear and leaks. | X | |
| Check cylinders for leaks; inspect rod ends for corrosion and pitting. | X | |
| Lubricate all exposed cylinder rod ends 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. | Х | |
| Clean and lubricate all electrical plugs and connections with dielectric grease. Clean and install all dust caps prior to storing. | Х | Х |
| Lubricate all pins and bushings, inner slide box, and A-frame latch with NLGI Grade 2 multipurpose lithium complex grease with molybdenum (MPGM) to maintain consistent operation. | Х | Х |
| Clean and paint all scratches or exposed metal with BLIZZARD® touch-up paint. | X | Х |
| 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. | Х | |
| Remove and properly discard the fluid from the pump reservoir. Clean the pump filter and replace the hydraulic fluid to within 3/4" from the top of the reservoir. Changing the fluid annually will prolong the life of your pump and manifold. Never mix different types of hydraulic fluid. | | Х |
| 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. | Х | |
| Adjust the wing spring as needed or install an optional second extension spring for increased return speed. | Х | |
| Clean snow and ice build-up from the pump and manifold cover. | Х | |
| Pressure wash and dry the entire snowplow prior to storing. | | Х |
| 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. | | Х |

REMOVING SNOWPLOW FROM STORAGE

- 1. Perform all regular maintenance.
- Replace the hydraulic fluid in the pump reservoir. Prolonged storage could result in condensation build-up.
- 3. Follow the mounting procedure on the POWER HITCH™ label.
- 4. Initiate all of the functions. Monitor the fluid level in the reservoir and fill to 3/4" from the top of the tank as necessary.
- 5. Adjust the snowplow headlamps as needed.

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.



TECHNICAL SPECIFICATIONS

| Part | Specification | 810 | 8611LP | 8611 | | |
|---------------------|---------------------------|---|---------------------------------------|------------------|--|--|
| | Length | 96" (8') | | (8'6") | | |
| Moldboard | Thickness | 12 | | 11 ga | | |
| | Height | 3 | - | 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" Hook | ked Extension | | |
| | Length | 12" | ` / | 3" | | |
| | Thickness | 11 | ga | 7 ga | | |
| | Height | 3 | - | 34" | | |
| Wings | Reinforcement | † | 1 Rib @ 1/4" | | | |
| | Cutting Edge | 1/4" x | 1/4" x 10" T1 3/8" x 12-1/2" T1 | | | |
| | Finish | 1 | Powder Coat White | 375 11 12 172 11 | | |
| | Material | Re | ctangular Tube and Channel T | vpe | | |
| A-Frame | Hitch Pins | 1 | 3/4" x 6" Yellow Zinc |) F - | | |
| , , , , , , , , , , | Finish | 1 | Powder Coat Black | | | |
| | Construction | Ste | el Housing with Clear Plastic T | ank | | |
| | Туре | 1 | Internal Gear Pump | | | |
| | Size | 2.5 cc | · · · · · · · · · · · · · · · · · · · | CC | | |
| | Motor | 1 | 12V Starter | | | |
| Pump | Weight | <u>†</u> | 32 lb | | | |
| | Mount | A-Frame Install with Hex Cap Screws | | | | |
| | Reservoir Capacity | 2 qt | | | | |
| | Controls | Toggle a | nd Rocker Switch/Joystick or 1 | Touchnad | | |
| | Construction | Red Anodized Aluminum | | zed Aluminum | | |
| Manifold | Valves | Electro-Hydraulic Cartridge | | | | |
| | Angle Cylinders | 1 | 2 | | | |
| | Stroke | 10" | | | | |
| | Ram Diameter | 1-3/4" | |)" | | |
| | Bore Diameter | 2" | | 1/4" | | |
| | Raise/Lower Cylinders | - | 1 | | | |
| | Stroke | <u>†</u> | 4-5/8" | | | |
| Cylinders | Ram Diameter | 1 | 1-1/4" | | | |
| | Bore Diameter | 3" | | 1/2" | | |
| | Slide Box Cylinders | i | 2 | 112 | | |
| | Stroke | 13-15/16" | | 7/16" | | |
| | Ram Diameter | 1" | | 1/8" | | |
| | Bore Diameter | 1-1/2" | | 3/4" | | |
| | Туре | 1 1/2 | Low-Profile with Turn Signals | | | |
| | Measurements | <u> </u> | 12"W x 5"H x 5-1/4"D | | | |
| Snowplow | Housing | | Plastic Composite | | | |
| Headlamps | Bulb Type | High/Low | | ectangular | | |
| | Switch Type | High/Low Sealed Beam Halogen 12V Rectangular Integrated ON/OFF Control Station Switch | | | | |
| | Weight* | 964 lb | 1121 lb | 1460 lb | | |
| | Amperage Draw** | 155A 175A | | | | |
| | Compact Width | 96" (8') 102" (8'6") | | | | |
| Snowplow | WIDE PASS™ Width | 120" (10') | | (11'3") | | |
| Specs | BUCKET BLADE™ Width | 111" (9'3") | | | | |
| - CP000 | Adjustable Plow Shoes | 111" (9'3") 118" (9'10") (2) Heavy-Duty Cast Steel | | | | |
| | Mount Mechanism | Hydraulic Power Switch | | | | |
| | Control Station | Rocker Switch/Joystick or Touchpad | | | | |
| | not include undercarriage | Rocker Switch/Joystick or Touchpad | | | | |

^{*} Weight does not include undercarriage.

^{**} Amperage draw specifications are based on snowplow lift operation, at a shop temperature of 65°F, using BLIZZARD® Rapid Action Hydraulic Fluid. Amperage will vary with temperature, fluid viscosity and meter accuracy. Deadheading a plow function will result in significantly increased amperage.

TROUBLESHOOTING

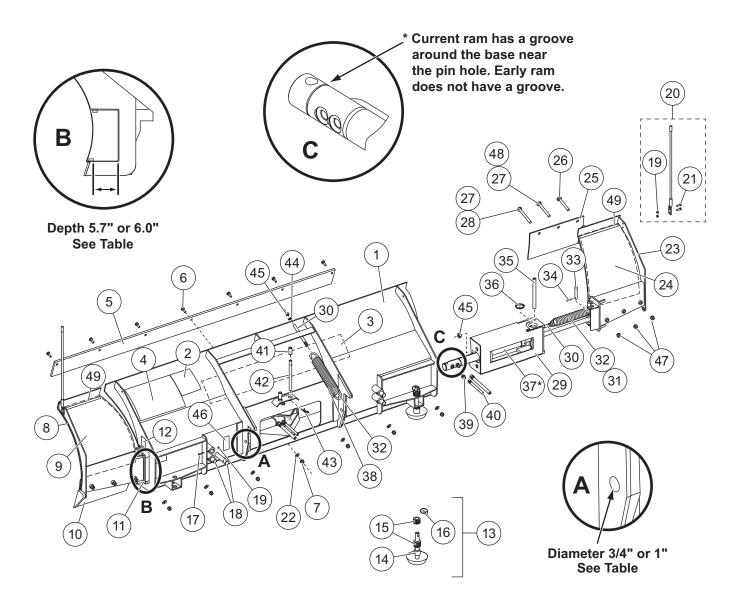
| Problem | Cause | Solution |
|-------------------------------------|---|--|
| | Snowplow harness may not be | Verify that the harnesses are properly connected. |
| | properly connected to the vehicle | |
| Pump will not run. | harness. | |
| Pump wiii not run. | Power or ground cables to the | Properly connect all cables. Clean and lubricate with |
| | battery, pump or solenoid may not | dielectric grease. If power does not resume, check |
| | be properly connected. | the continuity of all cables to find the break. |
| | The black ground wire and | Properly connect both cables. Test for power by |
| | brown/white activation wire on | initiating any joystick function except "FLOAT." |
| Pump will not run, power to the | the solenoid are not properly | NOTE: The POWER rocker switch must be in |
| solenoid. | connected. | the "ON" position to properly test any snowplow |
| | | function. If the solenoid is grounded and no power |
| | | exists, diagnose the snowplow and truck harnesses. |
| Pump will not run with power | The red, hot wire to the pump | Connect red wire and check the black ground wire. |
| to the solenoid. Brown/white | motor is not properly connected. | If problem is not resolved, the solenoid could be |
| activation wire and ground are | | inoperable or the pump motor may be worn. Replace |
| properly connected. | | the solenoid if there is no power to the pump. |
| | | Replace the pump motor if it is receiving power. |
| Pump will not turn OFF. Do not | Solenoid may be damaged. | Disconnect the brown/white activation wire from the |
| allow the pump motor to run | | solenoid. If the problem is not resolved, replace the |
| continuously. Unplug the harness | | solenoid. |
| until the solenoid can be tested or | Short in the control or wire | Disconnect the control in the cab. If the pump turns |
| 9 | harness. | OFF, there is a short in the electrical system. |
| the problem. | Florid level in the more recompaining | And fluid to within 2/4" from the ten of the tent |
| | Fluid level in the pump reservoir is | Add fluid to within 3/4" from the top of the tank. |
| | low. Fluid is leaking. | Check for leaks around the pump, manifold and |
| | System pressure may be set | cylinders. Adjust the pressure. Remove the hex cap on top |
| | too low. Increasing the pressure | of the pump and turn the screw clockwise. Proper |
| Pump runs but snowplow | excessively will increase the | system pressure should be set at 2400 psi. Test |
| functions are slow. | amperage draw. This could | functions and repeat procedure as needed. |
| runotions are slow. | damage the vehicle harness. | Tariotions and repeat procedure as needed. |
| | Amperage from the vehicle's | Repair or replace vehicle alternator. System |
| | alternator is too low. | amperage draw is 155A (175A for 8611) at 1500 psi. |
| | Pump filter may be clogged. | Remove the pump tank and thoroughly clean the |
| | , , , , , | filter. |
| | Draw latch is binding the A-frame | Lower the draw latch to relieve binding on the |
| A-frame latch will not move. | latch. | A-frame latch and reposition the A-frame latch as |
| | | needed. |
| | Control station in the cab may not | Connect the power connector from the control to the |
| | be properly connected. | vehicle harness. |
| | A-frame latch is in the (down) | Lift the A-frame latch into the raised position. |
| | locked position. | |
| Snowplow will not lift. Pump works | Diode loop harness may be | Clean diode loop harness thoroughly and/or replace. |
| properly. | corroded or could have failed. | |
| [F F 2]. | Coils on the manifold may be | Remove the S6 coil from the cartridge valve. |
| | damaged. | Position a screwdriver inside the coil and push |
| | | the draw latch connect/disconnect toggle switch |
| | | upward. The screwdriver should be magnetically |
| | The decode to the first of the | drawn to the coil. Replace coil if there is no action. |
| | Hydraulic lock in the manifold. | Loosen cartridge valve S6 to relieve pressure and |
| 0 | This occurs if the voltage is too | retighten. DO NOT OVERTIGHTEN! Valves should |
| Snowplow will not lift with | low on the coils—should be 10V. | be torqued to a maximum of 24 ft-lb. |
| magnification to the S6 coil. | Solenoid cartridge valve may be | Remove any foreign objects that may be obstructing |
| | contaminated. | proper valve operation. Replace if not operating |
| | | properly after cleaning. |

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TROUBLESHOOTING

| Problem | Cause | Solution |
|---|--|---|
| | The angle pressure-relief valve is | Check the pressure relief by testing the valve inline |
| | set too low. NOTE: Increasing the | with the cylinder. Attach a tee fitting to the angle |
| Snowplow will not stay angled | pressure-relief setting will cause | cylinder hydraulic adapter and connect the hose |
| when plowing. | damage to your snowplow. Do not | and pressure gauge to the tee. NOTE: The setting |
| | set the pressure relief greater than | should not exceed 3000 psi. |
| | 3000 psi. | |
| Snowplow will not angle, pump | Review all probable causes | NOTE: Verify angle functions for coils S3 and S4. |
| works. | above. | Took the suite a management of Attack of Strid aci |
| | The angle pressure-relief valve is set too low. <i>NOTE: Increasing the</i> | Test the wing pressure relief. Attach a fluid psi |
| Wing will not stoy angled when | pressure-relief setting will cause | gauge to the quick-connect fitting on the manifold. The pressure relief should not be greater than |
| Wing will not stay angled when plowing. | damage to your snowplow. Do not | 1700 psi (2650 psi for 8611). |
| piowing. | set the pressure relief greater than | 1700 psi (2030 psi ioi 6011). |
| | 1700 psi (2650 psi for 8611). | |
| | Control station, harness or cables | Verify that control station, harness and all cables |
| | may be loose or improperly | are securely connected. Clean if necessary. |
| | connected. | ,, |
| | Hydraulic lock in the manifold has | Loosen cartridge valves S9 and S10 or S1 and |
| | occurred. | S2 to relieve pressure and retighten. DO NOT |
| | | OVERTIGHTEN! Valves should be torqued to a |
| | | maximum of 24 ft-lb. |
| | Power to the coils. | Verify that coils S1 and S2 (passenger-side slide |
| | | box retract and extend) and S9 and S10 (driver-side |
| | | slide box retract and extend) are grounded, |
| | | connected properly and receiving power. If no power |
| Wing will not move, pump works. | | is available, diagnose the harness. Review the |
| | | harness schematics. If power is present, review the |
| | Coils are receiving power. | next step. Verify that coils are magnetizing. Position a |
| | Cons are receiving power. | 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 | Determine a damaged cartridge valve by reversing |
| | contaminated or damaged. A bent | the driver-side and passenger-side cartridge valves. |
| | cartridge will not allow the valve to | Replace valve if necessary. |
| | move freely inside of the cartridge. | |
| | Variable flow control valve is not | WARNING: Snowplow can fall suddenly. You |
| | adjusted properly. | can die or be seriously injured. Drop snowplow |
| Chavalou lovers to a slovik | | to ground before adjusting flow control. |
| Snowplow lowers too slowly. | | Turn flow control valve counterclockwise in small |
| | B : " | increments and test. |
| | Review all probable causes for | Verify that S5 coil (float) or S5 and S8 coils |
| | "Snowplow will not lift." Variable flow control valve is | (disconnect) for magnetism. |
| | opened too far. | WARNING: Snowplow can fall suddenly. You |
| Snowplow drops sporadically. | opened too iai. | can die or be seriously injured. Drop snowplow |
| | | to ground before adjusting flow control. |
| | No second and the second secon | Turn clockwise 1/16 turn and test. |
| Headlamps will not switch from | No power or ground to the | Verify that the headlamp/ground relay connector is |
| the vehicle to the snowplow. | headlamp relay. | connected. If the connector is properly attached, |
| <u> </u> | | replace the headlamp relay(s). |

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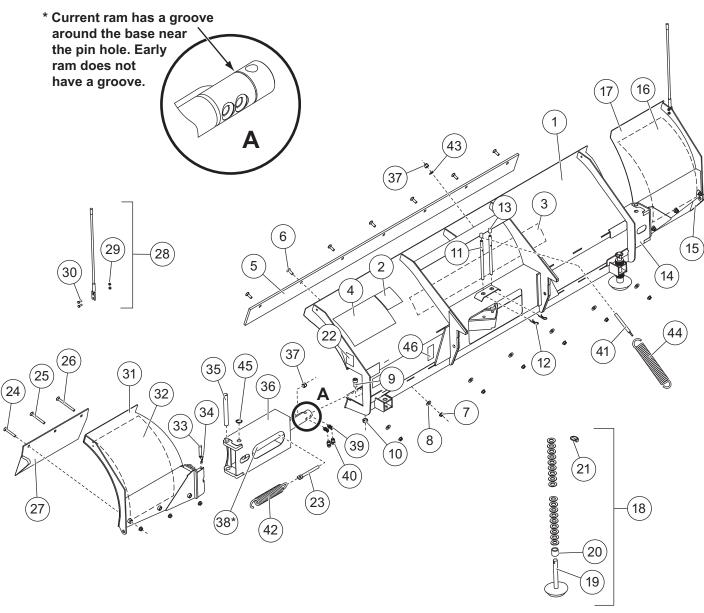


| | | Qty | | | | | | |
|------|----------|-----|------|---|--|--|--|--|
| Item | Part | 810 | 8611 | Description | | | | |
| 1 | B52074-1 | 1 | _ | Moldboard | | | | |
| | B52085 | _ | 1 | Moldboard, 3/4" dia hole (See callout A.) | | | | |
| | B52185 | _ | 1 | Moldboard, 1" dia hole (See callout A.) | | | | |
| 2 | 59900 | 1 | 1 | Label – Warning/Caution, Information | | | | |
| 3 | B63160 | 1 | 1 | Label – Logo, POWER PLOW™ Center | | | | |
| 4 | 44812 | 1 | 1 | Label – Attach/Detach, POWER HITCH™ | | | | |
| 5 | B61292 | 1 | _ | Moldboard Cutting Edge | | | | |
| | B52139 | _ | 1 | Moldboard Cutting Edge | | | | |
| 6 | 90238 | 7 | _ | 1/2-13 x 1-3/4 Carriage Bolt G8 | | | | |
| | 80238 | _ | 7 | 5/8-11 x 2 Carriage Bolt G8 | | | | |
| 7 | 91335 | 13 | _ | 1/2-13 Hex Locknut GB | | | | |
| | 91337 | _ | 7 | 5/8-11 Hex Locknut GB | | | | |
| | | | | G = Grade | | | | |

| Item | |
|---|---------------------------------------|
| B51100 – 1 Wing – DS 9 96325 1 – Label – Graphics, Wing – DS | |
| 9 96325 1 – Label – Graphics, Wing – DS | |
| | |
| 00000 4 Label Complies DC | |
| 96329 – 1 Label – Graphics, Wing – DS | |
| 10 B51048 1 – Wing Cutting Edge (T1) – DS | |
| B51069 – 1 Wing Cutting Edge (T1) – DS | |
| 11 B50057 1 – Slide Box – DS | |
| B50075 – 1 Slide Box – DS, 5.7" (See callout B.) | |
| B50095 – 1 Slide Box – DS, 6" (See callout B.) | |
| 12 29593 2 2 Label – Warning, Multiple Pinch Points | |
| 13 49071 2 2 HD Disc Shoe Assembly | |
| 14 60045 2 2 1-1/8 ID, 1-5/8 OD x 1-1/2 Spacer | |
| 15 91192 36 28 1" Flat Washer | |
| 16 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 91332 8 8 5/16-18 Hex Locknut GB | |
| 20 B61049 1 1 Plow Guide Assembly (set of 2) | |
| 21 68494 4 4 5/16-18 x 1 Hex Cap Screw G5 | |
| 22 90572 7 – 1/2 Hardened Flat Washer | |
| 90576 – 7 5/8 Hardened Flat Washer | |
| 23 B51043 1 – Wing – PS | |
| B51101 – 1 Wing – PS | |
| 24 96326 1 – Label – Graphics, Wing – PS | |
| 96330 – 1 Label – Graphics, Wing – PS | |
| 25 B51047 1 – Wing Cutting Edge (T1) – PS | |
| B51070 – 1 Wing Cutting Edge (T1) – PS | |
| 26 B61418 2 – 1/2-13 x 3-1/2 Carriage Bolt G8 | |
| B61360 – 2 1/2-13 x 5 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, 5.7" (See callout B.) | |
| B50094 – 1 Slide Box – PS, 6" (See callout B.) | |
| 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 2 3/8 x 2-5/16 x 14-1/2 Blade Trip Spring | |
| 33 B61385 2 2 5/8 x 3.06 Clevis Pin | |
| 34 B61028 2 2 1/4 x 1-1/4 Spring 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 2-51/64 OD, 2-9/32 ID x 1/2 Plug, Black Polyurethane | |
| 37* B60347 2 – Slide Box Extend/Retract Hydraulic Cylinder (Early rar | m – see callout C.) |
| 43803 2 — Ram Assembly 1-1/2 x 13-15/16 DA (Current ram - see | • |
| B60207 – 2 Slide Box Extend/Retract Hydraulic Cylinder (Early rar | , , , , , , , , , , , , , , , , , , , |
| 43802 – 2 Ram Assembly 1-3/4 x 18-7/16 DA (Current ram - see | • |
| G = Grade | |

MOLDBOARD & WING PARTS — 810 & 8611 MODELS

| | | Qty | | | |
|------|--------|-----|---------|---|--|
| Item | Part | 810 | 8611 | Description | |
| 38 | B61099 | _ | 6 | 3/8 x 2-3/8 x 14-1/2 Blade Trip Spring | |
| 39 | B60007 | 4 | _ | Connector, Short –6 M JIC/–6 M ORB | |
| | 56695 | _ | 4 | Elbow, 45° –6 M JIC/–6 M ORB | |
| 40 | 49501 | 4 | 4 | Hose, 3/8 x 36 w/F JIC Ends | |
| 41 | B61198 | 2 | 2 | 5/8 x 1-1/8 Vinyl Cap, Black | |
| 42 | B11989 | 2 | 2 | 5/8 x 11-1/2 Pin, Hydraulic Cylinder Base End | |
| 43 | B61030 | 2 | 2 | 1/8 x 2-5/8 Hairpin Cotter | |
| 44 | 90576 | 4 | 6 | 5/8 Hardened Washer | |
| 45 | 91337 | 6 | 8 | 5/8-11 Hex Locknut GB | |
| 46 | 29256 | 1 | 1 | Label – Warning, Foot Crush Hazard | |
| 47 | B61365 | _ | 6 | 1/2-13 Flanged Locknut | |
| 48 | B61419 | 2 | _ | 1/2-13 x 4-1/2 Carriage Bolt G8 | |
| 49 | 50639 | _ | 2 | Wear Strip – Wing Top | |
| | | G | = Grade | M = Metric | |

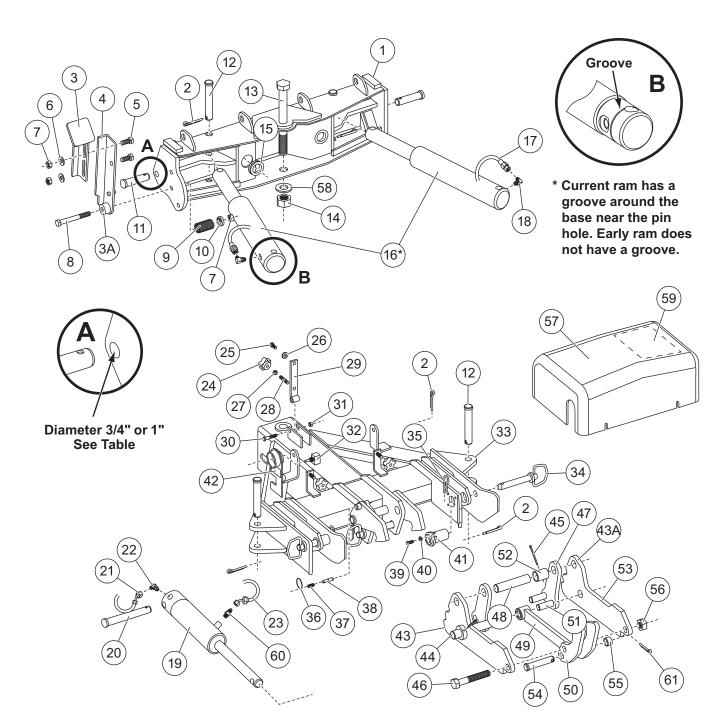


| | | Qty | | | | | | |
|------|-----------|--------|-------------------------------------|--|--|--|--|--|
| Item | Part | 8611LP | Description | | | | | |
| 1 | 41174 | 1 | Moldboard | | | | | |
| 2 | 59900 | 1 | Label – Warning, Information | | | | | |
| 3 | B63160 | 1 | Label – Logo, POWER PLOW™ Center | | | | | |
| 4 | 44812 | 1 | Label – Attach/Detach, POWER HITCH™ | | | | | |
| 5 | B11962 | 1 | 1/2" Moldboard Cutting Edge (1080) | | | | | |
| 6 | 90238 | 7 | 1/2-13 x 1-3/4 Carriage Bolt G8 | | | | | |
| 7 | 91335 | 13 | 1/2-13 Hex Locknut GB | | | | | |
| 8 | 90572 | 7 | 1/2 Hardened Flat Washer | | | | | |
| 9 | B61618 | 2 | 3/4-10 x 1-1/2 Screw | | | | | |
| 10 | B61593 | 2 | 3/4-10 Hex Locknut | | | | | |
| 11 | B11989 | 2 | Slide Box Extend/Retract Pin | | | | | |
| | G = Grade | | | | | | | |

MOLDBOARD & WING PARTS — 8611LP MODEL

| | | Qty | |
|------|--------|---------|--|
| Item | Part | | Description |
| 12 | B61030 | 2 | 1/8 x 2-5/8 Hairpin Cotter |
| 13 | B61198 | 2 | 5/8 ID, 3/4 OD x 1 Vinyl Cap, Black |
| 14 | B55066 | 1 | Slide Box – PS |
| 15 | B55007 | 1 | Wing Cutting Edge – PS (T1) |
| 16 | 96332 | 1 | Label – Graphics, PS Wing |
| 17 | B55068 | 1 | Wing – PS |
| 18 | 49071 | 2 | HD Disc Shoe Assembly |
| 19 | 60045 | 2 | 1-1/8 ID, 1-5/8 OD x 1-1/2 Spacer |
| 20 | 91192 | 52 | 1" Flat Washer |
| 21 | 93010 | 2 | 7/16 x 1-3/4 Linchpin |
| 22 | 29593 | 2 | Label – Warning, Multiple Pinch Points |
| 23 | B61201 | 2 | 5/8-11 x 4-3/8 Spade Bolt |
| 24 | B61418 | 2 | 1/2-13 x 3-1/2 Carriage Bolt G8 |
| 25 | B61419 | 2 | 1/2-13 x 4-1/2 Carriage Bolt G8 |
| 26 | B61622 | 2 | 1/2-13 x 5-3/4 Carriage Bolt G8 |
| 27 | B55006 | 1 | Wing Cutting Edge – DS (T1) |
| 28 | B61049 | 1 | Plow Guide Assembly (set of 2) |
| 29 | 68494 | 4 | 5/16-18 x 1 Hex Cap Screw G5 |
| 30 | 91332 | 4 | 5/16-18 Hex Locknut |
| 31 | B55067 | 1 | Wing – DS |
| 32 | 96331 | 1 | Label – Graphics, DS Wing |
| 33 | B61385 | 2 | 5/8 x 3 Clevis Pin |
| 34 | 90601 | 2 | 1/4 x 1-1/2 Cotter Pin |
| 35 | B55042 | 2 | Wing Pivot Pin |
| 36 | B55065 | 1 | Slide Box – DS |
| 37 | 91337 | 8 | 5/8-11 Hex Locknut Type NE |
| 38* | B60207 | 2 | Slide Box Extend/Retract Hydraulic Cylinder (Early ram – see callout A.) |
| | 43802 | 2 | Ram Assembly 1-3/4 x 18-7/16 DA (Current ram - see callout A.) |
| 39 | 56695 | 4 | Elbow, 45° –6 M JIC/–6 M ORB |
| 40 | 49501 | 4 | Hose, 3/8 x 36 w/F JIC Ends |
| 41 | B61416 | 6 | 5/8-11 x 7-3/8 Spade Bolt G8 |
| 42 | B61167 | 2 | 3/8 x 2-5/8 x 12-1/2 Extension Spring |
| 43 | 90576 | 6 | 5/8 Hardened Washer |
| 44 | 23039 | 6 | 15-1/4 OAL x 2-3/8 OD x 3/8 Extension Spring |
| 45 | B61425 | 2 | 2-51/64 OD, 2-9/32 ID x 1/2 Polyethylene Plug, Black |
| 46 | 29256 | 1 | Label – Warning, Foot Crush Hazard |
| | | F = Fen | nale G = Grade M = Male |

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| | | | Qty | | |
|------|--------|-----|-----------|------|--|
| Item | Part | 810 | 8611LP | 8611 | Description |
| 1 | B52151 | 1 | _ | _ | Pivot Beam |
| | B55008 | _ | 1 | _ | Pivot Beam |
| | B41052 | _ | _ | 1 | Pivot Beam, 3/4" hole (see callout A) – requires B50069 Clevis Pin |
| | B41077 | _ | _ | 1 | Pivot Beam, 1" hole (see callout A) – requires B61717 Clevis Pin |
| 2 | 90601 | 8 | 8 | 8 | 1/4 x 1-1/2 Cotter Pin |
| 3A | B41039 | 1 | 1 | 1 | Kickstand Assembly (incl. items 3–10) |
| 3 | B41047 | 1 | 1 | 1 | Kickstand Foot |
| | | | G = Grade | | SS = Stainless Steel |

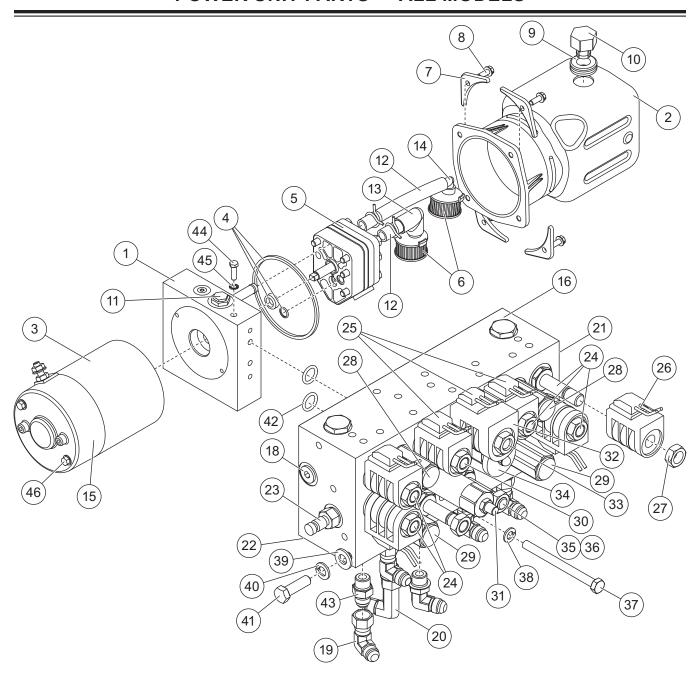
A-FRAME & PIVOT BEAM PARTS — ALL MODELS

| | | | Qty | | |
|------|---------|-------|--------|-------|--|
| Item | Part | 810 | 8611LP | 8611 | Description |
| 4 | B41038 | 1 | 1 | 1 | Kickstand Leg |
| 5 | 90665 | 2 | 2 | 2 | 1/2-13 x 1-1/4 Hex Cap Screw G8 |
| 6 | 90572 | 2 | 2 | 2 | 1/2 Flat Hardened Washer |
| 7 | 90593 | 3 | 3 | 3 | 1/2-13 Hex Locknut GC Distorted Thread |
| 8 | 42009 | 1 | 1 | 1 | 1/2-13 x 4-1/2 Hex Cap Screw G8 |
| 9 | B61293 | 1 | 1 | 1 | 1-1/8 OD x 53/64 ID x 2 Compression Spring |
| 10 | B41037 | 1 | 1 | 1 | 3/8 x 1-1/8 OD x 35/64 Stepped Bushing |
| 11 | B50069 | 2 | 2 | 2 | 3/4 x 3 Clevis Pin (for use with B41052 Pivot Beam) |
| | B61717 | _ | _ | 2 | 1" x 3-1/4" Clevis Pin (for use with B41077 Pivot Beam) |
| 12 | 95739 | 4 | 4 | 4 | 3/4 x 5 Clevis Pin |
| 13 | B61330 | 1 | 1 | 1 | 1-8 x 9 Hex Cap Screw G8 |
| 14 | B61008 | 1 | 1 | 1 | 1-8 Top Locknut GC Distorted Thread |
| 15 | B61217 | 4 | 4 | 4 | 1-1/2 ID, 2-1/8 OD 60 Durometer Grommet, Black Rubber |
| 16* | B60029 | 2 | _ | _ | Hydraulic Cylinder, Plow Angle (Early ram – see callout B.) |
| | 43801 | 2 | _ | _ | Ram Assembly 1-3/4 x 10 (Current ram – see callout B.) |
| | B60221 | _ | 2 | 2 | Hydraulic Cylinder, Plow Angle (Early ram – see callout B.) |
| | 43804 | _ | 2 | 2 | Ram Assembly 2 x 12 (Current ram – see callout B.) |
| 17 | B60091 | 2 | _ | _ | 3/8 x 24 Hydraulic Hose, Plow Angle |
| | B60223 | _ | 2 | 2 | 3/8 x 26 Hydraulic Hose, Plow Angle |
| 18 | 56590 | 2 | 2 | 2 | 9/16-18 90° Adjustable Elbow Hydraulic Adapter ORB |
| 19 | B60255 | 1 | _ | _ | Hydraulic Cylinder, Plow Raise/Lower |
| | B60237* | _ | 1 | 1 | Hydraulic Cylinder, Plow Raise/Lower (Early ram – see callout B note.) |
| | 43814* | _ | 1 | 1 | Ram Assembly 3-1/2 x 4-5/8 DA (Current ram – see callout B note.) |
| 20 | B40124 | 1 | 1 | 1 | 3/4 x 6 Clevis Pin |
| 21 | B60273 | 1 | 1 | 1 | Hose, 3/8 x 17 w/F JIC Ends |
| 22 | 56695 | 1 | 1 | 1 | Elbow, 45° –6 M JIC/–6 M ORB |
| 23 | B60274 | 1 | 1 | 1 | Hose, 3/8 x 15 w/F JIC Ends |
| 24 | B61628 | 3 | 3 | 3 | 3/8-16 Clamping Knob SS |
| 25 | 90097 | 2 | 2 | 2 | 3/8-16 x 3/4 Hex Cap Screw G8 |
| 26 | 29233 | 3 | 3 | 3 | 3/8 Hardened Washer |
| 27 | 91333 | 1 | 1 | 1 | 3/8-16 Hex Locknut Topring G8 |
| 28 | B61629 | 1 | 1 | 1 | 3/8-16 x 2-1/8 Threaded Stud |
| 29 | B40004 | 1 | 1 | 1 | Pump Mount Hinge |
| 30 | 90043 | 1 | 1 | 1 | 3/8-16 x 2 Hex Cap Screw G8 |
| 31 | B61034 | 1 | 1 | 1 | 3/8-16 Top Locknut GC |
| 32 | B62038 | 1 | 1 | 1 | Toggle Switch DPDT (ON-OFF-ON) Draw Latch Connect/Disconnect |
| 33 | B52152 | 1 | _ | _ | A-Frame |
| | B40107 | _ | 1 | 1 | A-Frame |
| 34 | B61426 | 2 | 2 | 2 | 3/4 x 6 Hitch Pin |
| 35 | B61105 | 2 | 2 | 2 | 9/64 x 2-11/16 Hairpin Cotter |
| 36 | B61309 | 1 | 1 | 1 | 1.25 OD Standard Split Ring |
| 37 | B61000 | 1 | 1 | 1 | 0.94 OAL x 0.36 OD x .029 Wire Compression Spring SS |
| 38 | B40079 | 1 | 1 | 1 | 3/8 x 1-3/4 A-Frame Latch Pin SS |
| 39 | 90671 | 2 | 2 | 2 | 5/16-18 x 3/4 Hex Cap Screw G8 |
| 40 | B61412 | 2 | 2 | 2 | 5/16 Hardened Washer |
| 41 | B40088 | 2 | 2 | 2 | A-Frame Pivot, Replaceable Bushing |
| 42 | B61295 | 1 | 1 | 1 | Label – POWER HITCH™ Connect/Disconnect Switch (BLZ 1037) |
| 43A | B40109 | 1 | 1 | 1 | Draw Latch Assembly (incl. items 2, 43–56) |
| 43 | B40080 | 1 | 1 | 1 | Outer Draw Latch Plate – DS |
| 44 | B40110 | 1 | 1 | 1 | 1 x 6-1/2 Draw Pin (13/64 cotter pin hole) |
| | F = F | emale | | G = (| Grade M = Male SS = Stainless Steel |

A-FRAME & PIVOT BEAM PARTS — ALL MODELS

| | ' | | Qty | | |
|------|--------|-----|-----------|------|---|
| Item | Part | 810 | 8611LP | 8611 | Description |
| 45 | B61363 | 2 | 2 | 2 | 3/16 x 2-1/2 Cotter Pin |
| 46 | B61004 | 1 | 1 | 1 | 3/4-10 x 4-1/2 Hex Cap Screw G8 |
| 47 | B40074 | 2 | 2 | 2 | Inner Draw Latch Plate |
| 48 | B40070 | 1 | 1 | 1 | 1 x 4-21/32 Draw Latch Mount (to A-frame) Pin |
| 49 | B40114 | 1 | 1 | 1 | Draw Latch Arm |
| 50 | B40123 | 1 | 1 | 1 | Draw Latch Finger |
| 51 | B40042 | 2 | 2 | 2 | 3/4 x 2-1/2 Draw Latch Arm Pivot Pin/Hydraulic Cylinder Rod End Pin |
| 52 | B40093 | 1 | 1 | 1 | 1-1/4 OD x 1-1/16 ID x 1-1/2 Bushing |
| 53 | B40081 | 1 | 1 | 1 | Outer Draw Latch Plate – PS |
| 54 | 66950 | 1 | 1 | 1 | 3/4 x 4 Clevis Pin |
| 55 | B40116 | 1 | 1 | 1 | 1 OD x 25/35 ID x 5/8 Spacer |
| 56 | B61006 | 1 | 1 | 1 | 3/4-10 Top Locknut GC |
| 57 | B40119 | 1 | 1 | 1 | Pump/Manifold Cover, Black |
| 58 | B61203 | 1 | 1 | 1 | 1" Washer |
| 59 | B63100 | 1 | 1 | 1 | Label – Information, Hydraulic Hose Guide (BLZ 1055) |
| 60 | B60007 | 1 | 1 | 1 | Connector, Short –6 M JIC/–6 M ORB |
| 61 | 91911 | 1 | 1 | 1 | 5/32 x 1-1/2 Cotter Pin |
| | | | G = Grade | | M = Male |

POWER UNIT PARTS — ALL MODELS

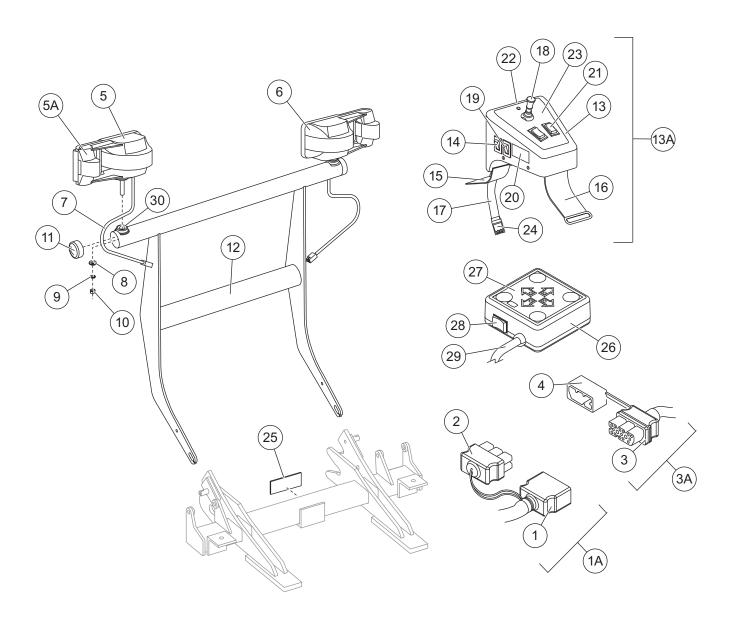


| | | | Qty | | |
|------|--------|-----|--------|------|---|
| Item | Part | 810 | 8611LP | 8611 | Description |
| 1 | B60402 | 1 | - | _ | Hydraulic Pump Assembly (incl. items 1, 2, 4–14) |
| | B60417 | _ | 1 | 1 | Hydraulic Pump Assembly (incl. items 1, 2, 4–14) |
| ns | B60375 | 1 | _ | _ | Pump/Manifold Kit (incl. items 1, 16, 37, 38, B60275, B62039, B61016 [2], |
| | | | | | 91203 [2], 90055 [2], B61412 [2], 56805 [8]) |
| ns | B60376 | _ | 1 | 1 | Pump/Manifold Kit (incl. items 1, 16, 37, 38, B60424, B62039, B61016 [2], |
| | | | | | 91203 [2], 90055 [2], B61412 [2], 56805 [8]) |
| 2 | B60433 | 1 | 1 | 1 | Reservoir |
| 3 | B60434 | 1 | 1 | 1 | Motor, 12V DC |
| 4 | B60435 | 1 | 1 | 1 | Seal Kit |
| 5 | B60436 | 1 | _ | _ | Pump Assembly, 2.47cc/Rev |
| | B60446 | _ | 1 | 1 | Pump Assembly, 3.14cc/Rev |
| | · | · | · | · | ns = not shown |

POWER UNIT PARTS — ALL MODELS

| | | | Qty | | |
|------|----------------------|-----|--------|------|--|
| Item | Part | 810 | 8611LP | 8611 | Description |
| 6 | B60437 | 2 | 2 | 2 | Filter |
| 7 | B60438 | 4 | 4 | 4 | Reservoir Clamp |
| 8 | B60439 | 4 | 4 | 4 | Reservoir Screw |
| 9 | B60345 | 4 | 4 | 4 | Grommet |
| 10 | B60346 | 1 | 1 | 1 | Breather |
| 11 | B60440 | 1 | 1 | 1 | Relief Valve Assembly |
| 12 | B60450 | 2 | 2 | 2 | Tube, cut to length |
| 13 | B60442 | 1 | 1 | 1 | Elbow |
| 14 | B60444 | 1 | 1 | 1 | Elbow |
| 15 | B60445 | 1 | 1 | 1 | Brush Kit |
| 16 | B60264 | 1 | _ | _ | Manifold Assembly |
| | B60265 | _ | 1 | 1 | Manifold Assembly |
| 18 | B60050 | 3 | 3 | 3 | -6 SAE Hollow Hex Plug |
| 19 | B60006 | 6 | 6 | 6 | Elbow, Swivel 90° -6 M JIC/-6 F JIC Swivel |
| 20 | B60072 | 1 | 1 | 1 | Elbow, Extra Long 90° –6 M JIC/–6 M ORB |
| 21 | B60228 | 2 | 2 | 2 | Piston Assembly |
| 22 | B60225 | 4 | 4 | 4 | Check Valve, 50 psi |
| 23 | B60173 | 1 | 1 | 1 | 7/16-20 ORB Test Port Coupling |
| 24 | B60166 | 5 | 5 | 5 | Spool Valve, 3-Way, 2-Position |
| 25 | B62147 | 1 | 1 | 1 | Coil Harness Assembly (incl. items 25 [7], 35, 31) |
| 26 | B62114 | 7 | 7 | 7 | Coil, PDL10V DC |
| 27 | B60052 | 9 | 9 | 9 | 1/2-20 Hex Jam Nut |
| ns | B62045 | 1 | 1 | 1 | Electric Connector, Male, Plastic |
| ns | B62096 | 19 | 19 | 19 | Cable Seal, Silicone 18 ga, Orange |
| ns | B62116 | 1 | 1 | 1 | Cavity Plug, Silicone 18–16 ga, White |
| ns | B62097 | 9 | 9 | 9 | Terminal, Male 18–16 ga |
| ns | B62118 | 1 | 1 | 1 | 3/8 ID End Ring Terminal Copper, 6 ga |
| 28 | B60278 | 2 | _ | _ | Relief Valve, 1700 psi |
| | B60226 | _ | 2 | 2 | Relief Valve, 2800 psi |
| 29 | B60279 | 2 | _ | _ | Relief Valve, 1500 psi |
| | B60227 | _ | 2 | 2 | Relief Valve, 2650 psi |
| 30 | B60167 | 2 | 2 | 2 | Spool Valve, 4-Way, 2-Position |
| 31 | B60168 | 1 | 1 | 1 | Relief Valve, 3000 psi |
| 32 | B62115 | 1 | 1 | 1 | DDL Coil 10V DC |
| 33 | B60170 | 1 | 1 | 1 | Spool Valve, 3-Way, 2-Position |
| 34 | B60169 | 1 | 1 | 1 | Flow Control Valve |
| 35 | B60475 | 1 | 1 | 1 | Two-Way Valve NC |
| 36 | B62176 | 1 | 1 | 1 | PDL Coil 12V DC, Delta (waterproof, with O-rings) |
| 37 | B61010 | 2 | 2 | 2 | 5/16-18 x 3-3/4 Hex Cap Screw G8 |
| 38 | B61011 | 2 | 2 | 2 | 5/16 Split Lock Washer |
| 39 | 29233 | 2 | 2 | 2 | 3/8 Hardened Washer |
| 40 | 91203 | 2 | 2 | 2 | 3/8 Spring Lock Washer |
| 41 | 90055 | 2 | 2 | 2 | 3/8-16 x 1-1/4 Hex Cap Screw G8 |
| 42 | B60038 | 2 | 2 | 2 | 3/32 CSW, 9/16 ID, 3/4 OD O-Ring Neoprene |
| 43 | B60007 | 6 | 6 | 6 | Connector, Short –6 M JIC/–6 M ORB |
| 44 | 90097 | 1 | 1 | 1 | 3/8-16 x 3/4 Hex Cap Screw G5 |
| 45 | B61307 | 1 | 1 | 1 | 3/8 Internal/External Tooth Lock Washer |
| 46 | B61716 | 2 | 2 | 2 | 1/4-20 x 6-1/4 Coarse Thread Hex Cap Screw G5 |
| ns | 56590 | 1 | 1 | 1 | Elbow, 90° –6 M JIC/–6 M ORB |
| 113 | | | | | |
| | F = Female G = Grade | | | | M = Male ns = not shown ga = gauge |

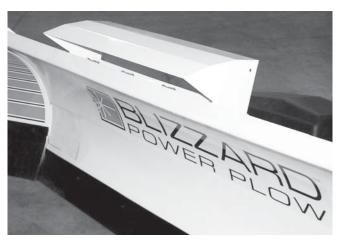
HEADLAMPS & CONTROL PARTS — ALL MODELS



| | | | Qty | | |
|------|--------|-----|--------|---------|---|
| Item | Part | 810 | 8611LP | 8611 | Description |
| 1A | B62039 | 1 | 1 | 1 | Plow Harness Assembly (incl. items 1–2, B62046, B62093, B61439, B62167) |
| 1 | B62057 | 1 | 1 | 1 | Snowplow Harness |
| 2 | B62001 | 1 | 1 | 1 | Weather Cap, Rubber, Snowplow Side |
| ns | B62046 | 1 | 1 | 1 | Electric Connector, Female, Plastic |
| ns | B62093 | 10 | 10 | 10 | Female Terminal 18–16 ga |
| ns | B61439 | 2 | 2 | 2 | Cable Tie, 15" |
| ns | B62167 | 1 | 1 | 1 | Diode Loop Harness |
| 3A | B62215 | 1 | 1 | 1 | Harness Assembly, Vehicle (incl. items 3 and 4, B61439, B62124, B62212, B62035, B62144, B62056, B62072, B62008, B62009, B62016, B61031) |
| 3 | B62150 | 1 | 1 | 1 | Vehicle Harness |
| 4 | B62000 | 1 | 1 | 1 | Weather Cap, Rubber – Vehicle Side |
| | · | | ns | = not s | hown ga = gauge |

HEADLAMPS & CONTROL PARTS — ALL MODELS

| | | | Qty | | | | |
|---------------------------|--------|-----|--------|------|---|--|--|
| Item | Part | 810 | 8611LP | 8611 | Description | | |
| ns | B62124 | 1 | 1 | 1 | 1/4 x 1-1/4 BUSS ARC Fuse 15A/32V | | |
| ns | B62212 | 1 | 1 | 1 | Main Lighting Harness | | |
| ns | B62035 | 2 | 2 | 2 | Weather Cap, Lighting Harness, Rubber | | |
| ns | B62144 | 4 | 4 | 4 | Headlamp Relay, CB1-D-12V | | |
| ns | B62178 | 1 | 1 | 1 | Heavy-Duty Motor Solenoid 12V DC – 225A | | |
| ns | B62056 | 1 | 1 | 1 | Power Contactor Ground Wire 24" | | |
| ns | B62072 | 4 | 4 | 4 | End Ring Terminal 3/8 ID, Copper, 4 ga | | |
| ns | B62008 | 1 | 1 | 1 | Fuse Clip, Mini | | |
| ns | B62009 | 1 | 1 | 1 | Fuse Clip, Auto Blade | | |
| ns | B62016 | 4 | 4 | 4 | Splice Lock Connector (18–14 WAG) | | |
| ns | B61031 | 3 | 3 | 3 | #12-14 x 3/4 Hex Washer Self-Drilling Screw | | |
| 5A | B61106 | 1 | 1 | 1 | Snowplow Headlamp Assembly (incl. items 5–10, B62061) | | |
| 5 | B62059 | 1 | 1 | 1 | Headlamp – DS | | |
| 6 | B62060 | 1 | 1 | 1 | Headlamp – PS | | |
| 7 | B62032 | 2 | 2 | 2 | Harness (with 6-pin plug), Plow Headlamp Side | | |
| 8 | B61550 | 2 | 2 | 2 | 1/2 ID x 1 OD x .105 Washer, Neoprene Backing Galvanized | | |
| 9 | 90651 | 2 | 2 | 2 | 7/16 External Tooth Lock Washer | | |
| 10 | B61111 | 2 | 2 | 2 | 7/16-14 Hex Nut G8 | | |
| ns | B62108 | 2 | 2 | 2 | Lighting Harness Repair Kit, Harness Side | | |
| ns | B62061 | 2 | 2 | 2 | Headlamp Sealed Beam Halogen (H6545/H4666) | | |
| ns | 56099 | 1 | 1 | 1 | Corrosion Preventive Compound | | |
| 11 | B61427 | 2 | 2 | 2 | 2-1/4 ID, 2-25/64 OD x 3/4 Vinyl Cap, Black | | |
| 12 | B39032 | 1 | 1 | _ | Light Tower | | |
| '- | B39041 | _ | _ | 1 | Light Tower | | |
| 13A | B62109 | 1 | 1 | 1 | Rocker Switch/Joystick Control Station Assembly (incl. items 13–23, B61036, | | |
| 10/1 | D02100 | • | • | • | B62183, B62184) | | |
| 13 | B61296 | 1 | 1 | 1 | Control Station Housing | | |
| 14 | B62065 | 1 | 1 | 1 | Rocker Switch SPST (OFF-None-ON) 15A/250V AC | | |
| 15 | B61126 | 1 | 1 | 1 | Rocker Switch Control Box Housing Plate | | |
| 16 | B61127 | 1 | 1 | 1 | 61" Hook-and-Loop Fastener Strap with 2" Metal D-Ring Black | | |
| 17 | B62130 | 1 | 1 | 1 | Electrical Connector (12-pin and 2-pin plugs) | | |
| 18 | B62177 | 1 | 1 | 1 | Joystick Assembly Only | | |
| 19 | B62129 | 1 | 1 | 1 | System ON/OFF Rocker Switch SPDT (ON-OFF-ON) 10A/250V AC | | |
| 20 | B63098 | 1 | 1 | 1 | Label – Snowplow Headlamps/Power Switch ON/OFF (BLZ 1053) | | |
| 21 | B62066 | 2 | 2 | 2 | Rocker Switch, Wing Extend & Retract/Plow Angle | | |
| 22 | B61035 | 4 | 4 | 4 | #10-24 x 1/2 Pan-Head Machine Screw | | |
| 23 | B61169 | 1 | 1 | 1 | Label – Information, Joystick Control Station (BLZ 1028) | | |
| 24 | B62202 | 1 | 1 | 1 | POWER PLOW™ Joystick Control Harness | | |
| ns | B61036 | 4 | 4 | 4 | U-Clip, #10-24 | | |
| ns | B62183 | 1 | 1 | 1 | Circuit Board for POWER PLOW Joystick Control | | |
| ns | B62184 | 1 | 1 | 1 | Timed Delay Joystick | | |
| 25 | B63161 | _ | _ | _ | Label – Logo, Push Beam, 2.25 x 9.75 (BLZ 1071) | | |
| | B63162 | _ | _ | _ | Label – Logo, Undercarriage Push Beam, 1.50 x 6.50 (BLZ 1072) | | |
| 26 | B62141 | 1 | 1 | 1 | POWER PLOW Touchpad Control Station (incl. items 26–28) | | |
| 27 | B62194 | 1 | 1 | 1 | Label – Touchpad Control, POWER PLOW | | |
| 28 | B62193 | 1 | 1 | 1 | PC Board for POWER PLOW Touchpad Control | | |
| 29 | B62200 | 1 | 1 | 1 | Harness, POWER PLOW Touchpad Control | | |
| 30 | B61231 | 1 | 1 | 1 | Headlamp Ball Stud Mount Adapter | | |
| \vdash | - | | | | | | |
| ns = not shown ga = gauge | | | | | | | |



 The snowplow airfoil helps channel air flow to your truck radiator during the long haul over the road. Mounted front and center, our custom airfoil redirects air over the top of the blade and into the grille of your vehicle. The airfoil is shipped with complete mounting hardware.



- Rugged and durable, the 3/8" thick, 2-ply rubber snow deflector keeps snow off your windshield and in its place—on the ground! One-piece design allows for wing clearance and provides optimum snow deflection. The deflector is shipped with a POWER PLOW™ vinyl label and complete mounting hardware.
- 3. The Emergency Parts Kit includes the most common replacement parts: angle cylinder hose, lift cylinder hose, hitch pin with hairpin cotter, angle cylinder clevis pin with cotter, 90° angle cylinder fitting, solenoid, and more. The durable polyester bag (17" x 8-3/4" x 9-3/8") allows for easy storage behind or under your seat.



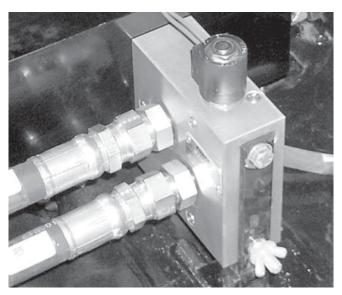
4. Beef up your POWER PLOW snowplow with our 3/8" thick wing cutting edges. These edges are built to withstand heavy snowplow use on the roughest road surfaces and also provide added material for protection against sidewalk curb wear. Mounting hardware included.



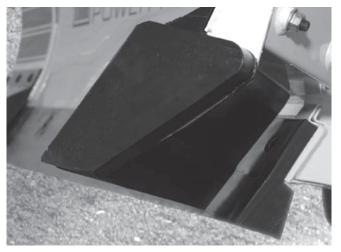
5. BLIZZARD® Rapid Action Hydraulic Fluid is specially formulated for use in BLIZZARD snowplows and can significantly enhance the operation and performance of the hydraulic system. BLIZZARD zinc-free hydraulic fluid maintains its viscosity to temperatures as low as –25°F. BLIZZARD hydraulic fluid is available by the quart, gallon, or 55-gallon drum.



6. Our easy-to-install, adjustable pedestal mount kit will position either POWER PLOW™ snowplow control station how you want it. Ideal for bucket seat vehicles with low center consoles. Pedestal accessory shipped with complete hardware and adapter plate.



7. Experience increased power and speed in all of the snowplow hydraulic functions with this easily installed add-on central hydraulic valve block. The auxiliary manifold attaches right up to the existing manifold and pump bracket without any modifications needed. Provides up to 30 gal/min input (4000 psi max.) from the vehicle pump and 2–3 gal/min output (2500 psi max.) to the existing hydraulic manifold. Hydraulic hoses, fittings, and pump not included.



8. 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.

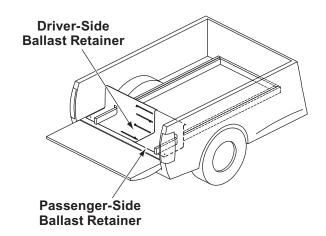


9. Putting your snowplow away for the winter? Have a deep scratch to cover? Clean up your blade and snowplow parts with our gloss spray paints. BLIZZARD touch-up paint provides an excellent finish to help keep your snowplow looking its best. Paint provided in 12-oz spray cans.

10. Ballast (additional weight) is an important part of qualifying vehicles for snowplow eligibility. Rear ballast must be used when necessary to remain in compliance with axle ratings and ratios as specified by the vehicle manufacturer. If ballast is required, it is important that it be secured properly behind the rear axle. A ballast retainer kit is available from your BLIZZARD® outlet.

NOTE: The ballast retainer kit is for snowplow vehicles requiring ballast. See your BLIZZARD outlet for the correct amount of ballast required. Include the weight of the retainer as part of the ballast requirement. Sand bags are recommended for use as ballast.

NOTE: Ballast recommended and its weight calculations assume the entire width of the bed is filled as close to tailgate as possible.



| Accessories | | | | | | | | |
|-------------|----------------|-----|--------|------|---|--|--|--|
| | | Qty | | | | | | |
| Item | Part | 810 | 8611LP | 8611 | Description | | | |
| 1 | B52093 | 1 | _ | - | Snowplow Airfoil | | | |
| | B52092 | _ | 1 | 1 | Snowplow Airfoil | | | |
| 2 | B61241 | 1 | _ | _ | Rubber Snow Deflector w/Hardware | | | |
| | B52087 | - | 1 | 1 | Rubber Snow Deflector w/Hardware | | | |
| 3 | 50885 | 1 | 1 | 1 | Emergency Parts Kit | | | |
| 4 | B61288 | 1 | _ | _ | 3/8 Wing Cutting Edges with Hardware (T1) (set of 2) | | | |
| | B51114 | - | _ | 1 | Extended Wear Wing Cutting Edges (set of 2) | | | |
| 5 | B63070 | _ | _ | _ | BLIZZARD® Rapid Action Hydraulic Fluid (quart) | | | |
| İ | B63072 | 1 | 1 | 1 | BLIZZARD Rapid Action Hydraulic Fluid (gallon) | | | |
| l | B63091 | 1 | 1 | 1 | BLIZZARD Rapid Action Hydraulic Fluid (drum – 55 gallons) | | | |
| 6 | B63078 | 1 | 1 | 1 | Pedestal Mount Kit | | | |
| 7 | B60310 | 1 | 1 | 1 | Central Hydraulic Valve Block | | | |
| 8 | B61536 | 1 | _ | _ | Polyurethane Moldboard and Wing Cutting Edges (with hardware) | | | |
| 9 | B61219 | 1 | 1 | 1 | POWER PLOW™ High Performance Spray Paint (12 oz), Gloss White | | | |
| İ | B63073 | 1 | 1 | 1 | POWER PLOW High Performance Spray Paint (12 oz), Gloss Black | | | |
| 10 | 62849 | 1 | 1 | 1 | Ballast Retainer Kit | | | |
| ns | B60133 | 1 | 1 | 1 | Hydraulic Pressure Test Gauge Kit w/Hose and Quick Disconnect | | | |
| | ns = not shown | | | | | | | |

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| | | | | | Kits | | |
|----------------|-----------------|--------|--------|--------|---|--|--|
| | | | Qty | | | | |
| Item | Part | 810 | 8611LP | 8611 | Description | | |
| ns | B61352 | 1 | _ | - | POWER PLOW™ Hardware Kit, Model 810 | | |
| ns | B61356 | _ | 1 | 1 | POWER PLOW Hardware Kit, Model 810 | | |
| ns | B60275 | 1 | _ | _ | Hydraulic Adapter Kit (incl. B60005 [3], B60006 [6], B60007 [11], B60072, 56695) | | |
| ns | B60424 | - | 1 | 1 | Hydraulic Adapter Kit (incl. B60005 [3], B60006 [6], B60007 [7], B60072, 56695 [5]) | | |
| ns | B60420 | 1 | _ | _ | Hydraulic Hose Kit (incl. B60273, B60274, 49501 [4], B60091 [2]) | | |
| ns | B60421 | _ | 1 | 1 | Hydraulic Hose Kit (incl. B60273, B60274, 49501 [4], B60223 [2]) | | |
| ns | B61255 | 1 | 1 | _ | Hardware Kit, Moldboard Cutting Edge | | |
| ns | B61624 | _ | _ | 1 | Hardware Kit, Moldboard Cutting Edge | | |
| ns | B52067 | 1 | _ | _ | Moldboard Cutting Edge Kit with Hardware | | |
| ns | B52095 | _ | 1 | _ | Moldboard Cutting Edge Kit with Hardware | | |
| ns | B61625 | - | _ | 1 | Moldboard Cutting Edge Kit with Hardware | | |
| ns | B61431 | 1 | _ | _ | Hardware Kit, Wing Cutting Edge (set for 2 wings) | | |
| ns | B51104 | 1 | _ | _ | Wing Cutting Edges Kit with Hardware (1/4, set of 2) | | |
| ns | B61431 | _ | 1 | _ | Hardware Kit, Wing Cutting Edge (set of 2) | | |
| ns | B61687 | - | 1 | - | Wing Cutting Edges Kit with Hardware (set of 2) | | |
| ns | B61387 | - | _ | 1 | Hardware Kit, Wing Cutting Edge (set of 2) | | |
| ns | B51103 | - | _ | 1 | Wing Cutting Edges Kit with Hardware (3/8, set of 2) | | |
| ns | B62195 | 1 | 1 | 1 | Headlamp Replacement Kit for B61106 (incl. Sealed Beam HP6545, Rim, Spacer | | |
| | | | | | Bumpers [4], Screws [4]) | | |
| ns | B62196 | 1 | 1 | 1 | Turn Signal Replacement Kit for Headlamp B61106 (incl. Lamp 1157, Turn Signal | | |
| ,,, | B60360 | 4 | | | Lens, Lens Gasket, Screws [2]) | | |
| ns | 43792 | 1 1 | _ | _ | Combo Seal Kit, Cylinder B60029/B60065 | | |
| ns | H3792 B60365 | | _ 1 | - 1 | Seal Kit, Ram Assembly 43801, 43813 | | |
| ns | | - | = | - | Combo Seal Kit, Cylinder B60207 | | |
| ns | 43793 B60366 | _ | 1 1 | 1 1 | Seal Kit, Ram Assembly 43802 | | |
| ns | 43795 | | 1 | 1 | Combo Seal Kit, Cylinder B60221/B60324 | | |
| ns | | _ | - | - | Seal Kit, Ram Assembly 43804, 43805 | | |
| ns | B60369 | _ | 1 | 1 | Combo Seal Kit, Cylinder B60237 | | |
| ns | B60371 | 1 | _ | _ | Combo Seal Kit, Cylinder B60255 | | |
| ns | B60373 | 1 | _ | _ | Combo Seal Kit, Cylinder B60347 | | |
| ns | 43794 | 1 | _ | _ | Seal Kit, Ram Assembly 43803 | | |
| ns | 96027 | 1 | _ | _ | Moldboard Label Pack | | |
| ns | 96033 | _ | 1 | _ | Moldboard Label Pack | | |
| ns | 96031 | | | 1 | Moldboard Label Pack | | |
| ns = not shown | | | | | | | |

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