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# Models 760TR, 810TR, 8100TR, 860TR, 8600TR & 8611TR

Installation Instructions & Owner's Manual Original Instructions

#### **A**CAUTION

See your BLIZZARD<sup>®</sup> sales outlet/Web site for specific vehicle application recommendations before installation.

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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.

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#### PREFACE

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. SPEEDWING™ blades create a whole new category for multi-position truck-mounted snowplows. Our innovative products are tested all across the snowbelt.

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

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

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

#### AUTHENTIC PARTS AND ACCESSORIES

Your BLIZZARD snowplow is a valuable investment. The best way to assure original equipment reliability and efficiency is to purchase only **Authentic Parts and Accessories**. "Will-fit" parts and accessories can alter your snowplow's performance characteristics and may affect your product warranty.

Protect your investment by staying with the best original BLIZZARD parts and accessories from your local BLIZZARD outlet.



#### SAFETY DEFINITIONS

#### **A** WARNING

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

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

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

#### WARNING/CAUTION & INSTRUCTION LABELS

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

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

Lower blade when vehicle is parked.



Blade Serial Number Label



Code	Definition
ΥY	2-digit Year
MM	2-digit Month
DD	2-digit Day
LL	2-digit Location Code
XXXX	4-digit Sequential Number
ZZZZZZ	5- to 7-digit Blade Assembly PN

#### 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.

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

#### A WARNING

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



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

#### 

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

#### 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.

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Read Owner's Manual before operating or servicing snowplow.

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

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

#### 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 electrical and hydraulic systems contain several blade-style automotive fuses. If a problem should occur and fuse replacement is necessary, the replacement fuse must be of the same type and amperage rating as the original. Installing a fuse with a higher rating can damage the system and could start a fire.

#### PERSONAL SAFETY

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

#### FIRE AND EXPLOSION

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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, can 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/s<sup>2</sup> to the hand-arm or 0.5 m/s<sup>2</sup> to the whole body.

#### **SNOWPLOW WEIGHTS**

Size	Blade Assembly	Wt (lb)	Wt (kg)
7'-6"	760TR	895	406
8'	8100TR	1132	513
8'-6"	8611TR	1728	784
8'	810TR	1132	513
8'-6"	860TR	944	428
8'-6"	8600TR	885	401

Your POWER PLOW<sup>™</sup> snowplow is the most advanced and versatile snowplow on the market. The snowplow blade and wings can be adjusted into an infinite number of plowing positions. Review the illustrations below to determine the best position for your plowing needs.

#### Α.



В.



C.



#### 

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

#### **A** WARNING

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

#### A. Compact Position

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

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

#### B. WIDE PASS<sup>™</sup> 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<sup>™</sup> 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

#### E. Oscillating Feature

- Primarily used for uneven surfaces
- Adjusts to numerous tractor makes and models
- Ideal application: commercial and residential applications

Your SPEEDWING<sup>™</sup> snowplow is the newest multi-position snowplow on the market. The snowplow blade can be adjusted into a variety of plowing positions. Review the illustrations below for instruction on maneuvering your snowplow.



С.



#### 

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

#### **A** WARNING

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

#### A. BUCKET BLADE<sup>™</sup> Position

(7'-7" or 8'-7" Blade Width)

Automatic position when blade is not angled; creates a scoop and eliminates trails.

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

#### B. Angled Width w/Trailing Wing

(6'-7" or 7'-10" Blade Width)

An angled blade will automatically extend the trailing wing. The snowplow has reached its maximum angled position when the blade stops moving to the side.

- 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

#### C. Back Blade Position

(8'-7" or 9'-9" Blade Width)

Lock the wings into place to create the largest clearing path and get the most out of your wings.

- 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

Your 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:

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

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

Retain this information for your records.

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

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

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

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

#### 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

SAE J429 Grade 5 Torque Values				S	AE J429 Grade	8 Torque Value	es
Nominal	Clamp Loads	Tightenin	g Torque	Nominal	Clamp Loads	Tightenin	ig 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-Ib
5/16-18	3,350	13 ft-Ib	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-Ib
1/2-13	9,050	57 ft-lb	75 ft-lb	1/2-13	12,800	80 ft-Ib	107 ft-lb
9/16-12	11,600	82 ft-lb	109 ft-lb	9/16-12	16,400	115 ft-lb	154 ft-lb
5/8-11	14,500	113 ft-lb	151 ft-lb	5/8-11	20,300	159 ft-lb	211 ft-lb
3/4-10	21,300	200 ft-lb	266 ft-lb	3/4-10	30,100	282 ft-lb	376 ft-lb
7/8-9	29,435	321 ft-lb	430 ft-lb	7/8-9	41,550	454 ft-lb	606 ft-lb
1-8	38,600	482 ft-lb	640 ft-lb	1-8	54,540	680 ft-lb	900 ft-lb

### (8.8) Grade Identification for Metric–Grade 8.8 Bolt

# (10.9) Grade Identification for Metric-Grade 10.9 Bolt

Metric Class 8.8 Torque Values				Ň	letric 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-Ib	6	2,812	8 ft-lb	11 ft-lb
7	2,826	10 ft-lb	13 ft-Ib	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-Ib	10	8,116	40 ft-Ib	53 ft-Ib
12	8,243	49 ft-lb	65 ft-lb	12	11,796	70 ft-Ib	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

37° JIC Flare Torque Values					
Turns	Size	ft-lb min–max	Assembly Steps		
N/A	-02	6–7	1. Make sure the tubing and threads are clean.		
N/A	-03	8–9	2. Lubricate the threads with 10W hydraulic fluid.		
2	-04	11–12	3. Hand tighten the nut/sleeve to approximately 30 in-lb.		
2	-05	14–15	4. Make alignment marks on the nut and fitting.		
1-1/2	-06	18–20	5 Tighten to turn or torque specification		
1-1/2	-08	36–39	6. When fully tightened, make a second set of alignment marks at the fully tightened position		
1-1/2	-10	57–63			
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 elemping force resulting in loss of seel and reduction of flow		
1	-16	108–113			
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 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			

 Remove dust cap from both of the slide box cylinders located at the center/rear of the moldboard. Attach adapters (B60007 for 810TR; 56695 for 8611TR) to both ports on each slide box cylinder. Tighten fittings per torque chart.

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



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

2. Connect hoses (**B60223** for 810TR; **49501** for 8611TR) 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.

- Position the front (top) hole in the A-frame with the middle hole in the pivot beam. Insert cap screw (50605) through the top, and secure on the bottom with washer (B61203) and nut (B61008).
- 4. 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.





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



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

# NOTE: Be sure to use the proper mounting point when replacing or installing cylinders on 8611TR models.



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

7. 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 third and fourth coils on the spring.



8. 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.



 Assemble the manifold. Each of the hose ports on the manifold is covered with stretch wrap. Remove the wrap and install adapter (56695) in ports #1, 2, 7, 8, 9 and 10. Tighten fittings per torque chart.



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

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

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



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

- 12. Route the hydraulic hose groupings from the pivot beam to the access holes located on the sides of the A-frame. Connect the hoses to their respective adapters on the manifold.
- 13. Remove the dust cap from both of the hydraulic angle cylinder ports and attach one 9/16" 90° adjustable elbow ORB adapter (40571) to each port. Each adapter should be angled toward the top of the moldboard. Connect one 3/8" x 26" (36" for 8611) hydraulic hose (B60223 or 49501) to each angle cylinder adapter. Be careful not to overtighten the hose connections. Tighten fittings and hoses per torque chart.
- 14. Connect the hoses to their respective adapters on the manifold. Tighten hoses per torque chart.
- Install adapter (B60340) to port "T" on the manifold. Connect a 1/2" x 115" hydraulic hose (B60531) to the "T" adapter, and connect 3/8" x 115" hydraulic hoses (B60473) to the "P2" and "P3" adapters. Tighten fittings and hoses per torque chart.



- Position the front (top) hole in the A-frame with the middle hole in the pivot beam. Insert cap screw (B61331 for 760TR; 50605 for 860TR and 8600TR) through the top, and secure on the bottom with washer (B61203) and nut (B61008).
- 2. Position the pivot beam and A-frame near the mount locations at the rear of the blade. Position the pivot beam between the two support ribs until the connecting points on the beam align with those on the snowplow.

For 6760TR and 860TR models: Insert one bushing (B16536) through each mounting hole and secure them with retaining rings (B61616).



**For 8600TR model:** Insert one bushing (**42410**) through each mounting hole and secure it with a 3/8' x 1-1/2" cap screw (**66439**) and 3/8" locknut (**91333**).



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

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

#### MOLDBOARD & A-FRAME ASSEMBLY - 760TR, 860TR & 8600TR MODELS



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





 Assemble the manifold. Each of the hose ports on the manifold is covered with stretch wrap. Remove the wrap and install adapter (B60403) in both ports. Tighten fittings per torque chart.

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

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

- 7. Remove the A-frame cover to gain access to the inside of the manifold compartment.
- 8. Attach the manifold to the A-frame using cap screws (94498), washers (B61039) and locknuts (91331).

NOTE: When handling the manifold, hold the manifold at the sides of the block.

 Connect one 3/8" x 36" hydraulic hose (49501) to each adapter on the manifold. Route the hoses out through the access holes located on the sides of the A-frame, with one hose going out each side. Be careful not to overtighten the hose connections. Tighten hoses and fittings per torque chart.

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

- 10. Reinstall A-frame cover by aligning the holes in the cover with those on the A-frame and securing it with 3/8" x 1-1/2" cap screws and 3/8" washers.
- Remove the dust cap from both of the hydraulic angle cylinder ports and attach one 9/16" 90° adjustable elbow ORB adapter (40571) to each port. Each adapter should be angled toward the top of the moldboard. Connect one run tee (B60539) to each elbow.
- 12. Connect one hydraulic hose from the A-frame compartment to each angle cylinder. Be careful not to overtighten the hose connections. Tighten fittings and hoses per torque chart.
- Connect one 3/8" x 115" hydraulic hose (B60473) to each angle cylinder run tee. Be careful not to overtighten the hose connections. Tighten fittings and hoses per torque chart.
- 14. On each side of the blade, insert a cable through the pivot bushing from the center, then pin the cable onto the A-frame extensions. Slide the cable through the spring, and add a washer (760TR and 860TR models only) and nut. Adjust the nuts on the cable at full angle so that the wing stops just touch the outside moldboard ribs.

NOTE: Too much adjustment will cause the wings to stop before the snowplow is fully angled and could stretch the cables.

Adjust the cables with the blade centered, then angle the blade to see if the stops are touching. Attach a jam nut to lock in the cable adjustment.



#### **ELECTRICAL SCHEMATIC**

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

NOTE: 760TR, 860TR, and 8600TR Models have no solenoids and require no electrical connections between the tractor and the snowplow. One hose from each angle cylinder connects to the 760TR and 860TR manifolds to provide wing pressure relief.

# Hydraulic Valve & Hose Port Guide Models 810 TR & 8611 TR



NOTE: Pressure lines P2 & P3 and return line / auxiliary wing relief T are not illustrated. All three are located on the left side of the manifold in the diagram shown above. Pressure lines P2 & P3 also contain orifice check valves.



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

HYDRAULIC HOSES				
Port	Function			
1	Passenger-Side Angle Cylinder			
2	Driver-Side Angle Cylinder			
7	Passenger-Side Slide Box Retract			
8	Passenger-Side Slide Box Extend			
9	Driver-Side Slide Box Extend			
10	Driver-Side Slide Box Retract			
	RELIEF 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			
	PRESSURE LINES			
Line	Function			
P2	Pressure Line			
P3	Pressure Line			
т	Return Line / Auxiliary Wing Relief			
NOTE: Energize	the following solenoids for the functions:			
S1	Passenger-Side Slide Box Cylinder			
S2	Passenger- & Driver-Side Slide			
	Box Cylinders			
<b>S</b> 3	Driver-Side Slide Box Cylinder			
Milwaukee, Wisconsin 53224 29328				

NOTE: 760TR, 860TR, and 8600TR Models have only one relief valve (PN B60168 – 3000 psi) and no solenoids. One hose from each angle cylinder connects to the 760TR and 860TR manifolds to provide wing pressure relief.

- Attach the oscillating plate to the tractor now. 1.
- Route the loose hoses (from Ports "T", "P2" and 2. "P3" on 810TR and 8611TR models; from angle rams on 760TR, 860TR and 8600TR models) through the clamp on left side of oscillating plate.

#### NOTE: Route the hoses so they do not get pinched during use.

The tractor-specific hooks come pre-welded on the oscillating plate assembly. Refer to the illustrations below for hook identification. If welding the tractor-specific hooks is necessary, measure the distance on the tractor to determine appropriate placement of the hooks on the oscillating plate. Refer to the illustration below for weld specifications.





# NOTE: 760TR, 860TR and 8600TR Models do not require electrical connections between the tractor and the snowplow.

- Connect the coil harness to the solenoids according to the illustration below. Feed the opposite end of the harness through the top access hole in the A-frame, and route the harness into the tractor making sure to secure it so it will not get pinched during use.
- 2. Connect the tractor end of the coil harness to the tractor's auxiliary electrical system according to the vehicle's owner's manual or service manual.
- Complete the assembly by reattaching the A-frame cover. Align the holes in the cover with those on the A-frame and secure it with 3/8" x 1-1/2" cap screws and 3/8" washers.



#### TR COIL HARNESS (B62264)

Prior to operating your 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.



- To test all of the functions, your snowplow needs to be properly attached to the tractor. Refer to the Mounting and Dismounting label on the back of the snowplow.
- 2. Complete the hydraulic connections with the tractor turned OFF.

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

**For 810TR and 8611TR Models:** Connect the couplings to the loose hoses coming from the pressure ports ("P2" and "P3") and the tank port ("T") on the manifold.

**For 760TR, 860TR, and 8600TR Models:** Connect the couplings to the loose hoses coming from each ram.

Complete the hydraulic installation by making the appropriate connections at the tractor.

3. Start the tractor and begin to initiate the blade functions.

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

Activate each function of the snowplow.

**For 810TR and 8611TR Models:** Extend and retract the driver-side wing a few times, then extend and retract the passenger-side wing. Angle the blade left and right a few times.

For 760TR, 860TR, and 8600TR Models: Angle the blade left and right a few times.

Upon initiating the snowplow functions, you may notice a snowplow function is slow or delayed. The hydraulic fluid is filling the cylinders and replacing air in the system. Monitor the hydraulic fluid level in your tractor and fill as necessary.

NOTE: This snowplow uses the tractor controls for an emergency stop. See tractor manual for details.

#### 

Blade can drop unexpectedly. Place the blade on jack stands. Failure to do so could result in serious personal injury.

With the snowplow fully assembled and operational, install the adjustable plow shoes.

- 1. Raise the snowplow 6" to 12" off the ground, turn the tractor OFF and, from in front of the blade, place jack stands or sturdy blocking under the cutting edge.
- 2. Turn the tractor ON and lower the blade onto the jack stands or blocking. Turn the tractor OFF.
- 3. Thread the adjustable shoe rod into the inner shoe stem.
- 4. Attach the shoe to the inner shoe stem using the shoe pin and two 1/4" x 1-1/2" spring pins.
- 5. Slide the inner shoe stem up into the outer shoe stem.
- 6. Place a 3/4" washer onto the adjustable shoe rod, then attach the handle to the rod using a 5/16" x 1-3/4" cap screw and 5/16" locknut.
- 7. Turn the tractor ON. Raise the blade slightly from the jack stands. Turn the tractor OFF and remove the jack stands.
- 8. Stand 8 feet clear of the blade when checking the height adjustment of the cutting edge to the road surface.
- 9. Turn the handle clockwise to lower the shoe and turn the handle counterclockwise to raise the shoe. Lock the handle down against the outer shoe stem when adjustment is complete.



Maintenance	Periodically	Yearly
Check fasteners for tightness. Torque to specifications.	Х	
Check hoses for wear and leaks.	Х	
Check cylinders for leaks; inspect rod ends for corrosion & pitting.	Х	
Check cables for wear or fraying (760TR and 860TR Models only).	Х	
Lubricate all exposed cylinder rod ends with liquid white lithium grease to prevent corrosion.		Х
Check cutting edges and plow shoes for wear.	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 multi-purpose lithium complex grease with molybdenum (MPGM) to maintain consistent operation.	х	х
Clean and paint all scratches or exposed metal with BLIZZARD <sup>®</sup> touch-up paint.	Х	Х
Check the hydraulic fluid level. Never mix different types of fluid.	Х	
Change the hydraulic fluid as specified in your tractor owner's manual.		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	
Pressure wash and dry the entire snowplow prior to storing.		Х
Cover the snowplow with a tarp if stored outside. This will protect your plow from sun fading and inclement weather which can lead to accelerated corrosion.		Х

#### **REMOVING FROM STORAGE**

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

#### LIFTING

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



Lit. No. B64092, Rev. 08

## TECHNICAL SPECIFICATIONS & CENTER OF GRAVITY INFORMATION 810TR, 8100TR & 8611TR MODELS

Part	Specification	810TR & 8100TR	8611TR
	Length	96" (8')	102" (8'-6")
	Thickness	12 ga	11 ga
	Height	31"	34"
Moldboard	Reinforcement	4 Ribs	@ 1/4"
	Cutting Edge	1/2" x 6"	5/8" x 6"
	Finish	Powder Coat White	
	Trip Mechanism	(4) 3/8" Hooked Extension	(6) 3/8" Hooked Extension
	Length	12"	23"
	Thickness	11 ga	7 ga
Wingo	Height	31"	34"
wings	Reinforcement	1 Rib	@ 1/4"
	Cutting Edge	1/4" x 10" T1	3/8" x 12-1/2" T1
	Finish	Powder C	coat White
	Material	1/4" & 5/16	" Mild Steel
A-Frame	Cover	1/4" Mild Steel w/Non-Skid Texture	
	Finish	Powder Coat Black	
Manifold	Construction	Red Anodized Aluminum Black Anodized A	
Marinolu	Valves	Electro-Hydraulic Cartridge	
	Angle Cylinders	2	
	Stroke	10"	10"
	Ram Diameter	1-3/4"	2"
Culindora	Bore Diameter	2"	2-1/4"
Cylinders	Slide Box Cylinders	2	2
	Stroke	13-15/16"	18-7/16"
	Ram Diameter	1"	1-1/8"
	Bore Diameter	1-1/2"	1-3/4"
	Weight*	1132 lb	1728 lb
	Compact Width	96" (8')	102" (8'-6")
	WIDE PASS™ Width	120" (10')	132" (11'-3")
Snowplow Specs	BUCKET BLADE™ Width	111" (9'-3")	118" (9'-10")
	Adjustable Plow Shoes	(2) Heavy-Du	ity Cast Steel
	Mount Mechanism	Universal Attachment Plate	
	Control	Wired into Tractor System	

\* Weight does not include hydraulic fluid.





### TECHNICAL SPECIFICATIONS & CENTER OF GRAVITY INFORMATION 760TR, 860TR & 8600TR MODELS

Part	Specification	760TR	860TR	8600TR			
	Length	92" (7'-6")	102" (	(8'-6")			
	Thickness	12 ga	12	ga			
	Height	25.5"	29.5"				
Moldboard	Reinforcement	4 Ribs @ 1/4"	4 Ribs @ 1/4"				
	Cutting Edge	3/8" x 6"	3/8" x 6" 1/2" x 6"				
	Finish	Powder Coat White	Powder Coat White				
	Trip Mechanism Springs	(3) 3/8" Hooked Extension	(4) 3/8" Hook	ed Extension			
	Length	15.5"	17	.5"			
	Thickness	12 ga	12	ga			
	Height	25.5"	29	.5"			
vvings	Reinforcement	2 Ribs @ 3/16"	2 Ribs (	@ 3/16"			
	Cutting Edge	3/8" x 6"	1/2"	x 6"			
	Finish	Powder Coat White	Powder C	oat White			
	Material	1/4" & 5/16" Mild Steel					
A-Frame	Cover	1/4" Mild Steel w/Non-Skid Texture					
	Finish	Powder Coat Black					
Manifold	Construction	Black Anodized Aluminum					
Ivianiioiu	Valves	N/A					
	Angle Cylinders	2 2					
Culindere	Stroke	9-3/8"	10	)"			
Cylinders	Rod Diameter	1-3/4"	1-3	3/4"			
	Bore Diameter	2"	2				
	Weight*	895 lb	944 lb	885 lb			
	BUCKET BLADE™ Position Width	91" (7'-7")	103" (	(8'-7")			
Snowplow	Angle Width w/Trailing Wing	79" (6'-7")	94" (7'-10")				
Specs	Back Blade Width	103" (8'-7")	117" (	9'-9")			
	Adjustable Plow Shoes	(2) Heavy-Duty Cast Steel	(2) Heavy-Du	ity Cast Steel			
	Mount Mechanism	Universal Attachment Plate	Universal Atta	achment Plate			
	Control	Hydraulic from Tractor System	Hydraulic from Tractor System				

\* Weight does not include hydraulic fluid.



If you have followed all of the guidelines in the Maintenance Section of this manual and cannot resolve issues with the operation of your BLIZZARD<sup>®</sup> snowplow, contact one of our authorized outlets for repair information, or visit us online at *www.blizzardplows.com*. Our Web site has a complete listing of authorized outlets in your area as well as a library of service information to assist the qualified mechanic with repair.

Blizzard does not recommend repairs by other than our authorized outlets. Failure to use an authorized outlet could affect the warranty coverage on your snowplow.



		Qty					
Item	Part	810TR	8611TR	Description			
1	B61681	4	4	Pin, Wing Stop			
2	B11989	2	2	5/8 x 11-1/2 Pin, Hydraulic Cylinder Base End - Slide Box Extend/Retract			
3	B50057	1	_	Slide Box – DS			
	B50075	-	1	Slide Box – DS			
4	B50058	1	_	Slide Box – PS			
	B50074	-	1	Slide Box – PS			
5	B51009	2	_	3/4 x 9 Pin, Wing/Slide Box Pivot			
	B13307	_	2	1 x 11-1/8 Pin, Wing/Slide Box Pivot			
6	B51042	1	_	Wing – DS			
	B51100	_	1	Wing – DS			
7	B51043	1	_	Wing – PS			
	B51101	_	1	Wing – PS			
				G = Grade			

		Qty				
Item	Part	810TR	8611TR	Description		
8	B51047	1	-	Cutting Edge, Wing – PS		
	B51070	_	1	Cutting Edge, Wing – PS		
9	B51048	1	_	Cutting Edge, Wing – DS		
	B51069	_	1	Cutting Edge, Wing – DS		
10	B52149	1	_	Moldboard		
	B52142	_	1	Moldboard		
11	B60007	4	_	Connector, Short, –6 M JIC/–6 M ORB		
	56695	_	4	Elbow, 45° –6 M JIC/–6 M ORB		
12*	B60347	2	_	Hydraulic Cylinder, Slide Box Extend/Retract (Early ram - see callout in diagram.)		
	43803	2	_	Ram Assembly 1-1/2 x 13-15/16 DA (Current ram – see callout in diagram.)		
	B60207	_	2	Hydraulic Cylinder, Slide Box Extend/Retract (Early ram - see callout in diagram.)		
	43802	_	2	Ram Assembly 1-3/4 x 18-7/16 DA (Current ram – see callout in diagram.)		
13	B61028	2	2	1/4 x 1-1/4 Pin		
14	B61030	2	2	1/8 x 2-5/8 Hair Cotter Pin		
15	90576	4	6	5/8 Hardened Washer		
16	96325	1	_	Label, Wing – DS		
	96329	_	1	Label, Wing – DS		
17	96326	1	_	Label, Wing – PS		
	96330	_	1	Label, Wing – PS		
18	23039	4	6	Trip Spring		
19	B61187	4	6	5/8-11 x 6-3/8 Spade Bolt G8		
20	91337	6	8	5/8-11 Hex Locknut GB		
21	B61196	8	8	1/2-13 x 1-1/2 Carriage Bolt G8		
22	B61198	2	2	5/8 ID x 3/4 OD x 1 Cap, Black Vinyl		
23	B61292	1	_	Cutting Edge		
	B52139	_	1	Cutting Edge		
24	63575	2	2	3/4 Hardened Washer		
25	B61341	4	4	1/4 x 1-1/2 Spring Pin		
26	B61361	2	_	1/2-13 x 5-1/2 Carriage Bolt G8		
	B61362	_	2	1/2-13 x 6-1/2 Carriage Bolt G8		
27	B61365	14	14	1/2-13 Flanged Locknut		
28	B61383	4	4	5/16-18 x 2-1/4 Hex Cap Screw G8		
29	B61384	6	6	5/16-18 Hex Locknut GC		
30	B61385	2	2	5/8 x 3 Clevis Pin		
31	B61398	2	_	13 x 2 x 5/16 Extension Spring		
	23039	_	2	Spring		
32	B61400	2	2	1/8 NPT Grease Fitting		
33	B61416	2	2	5/8-11 x 7-3/8 Spade Bolt G8		
34	B61418	2	-	1/2-13 x 3-1/2 Carriage Bolt G8		
	B61360	_	2	1/2-13 x 5 Carriage Bolt G8		
35	B61419	2	-	1/2-13 x 4-1/2 Carriage Bolt G8		
	B61361	_	2	1/2-13 x 5-1/2 Carriage Bolt G8		
				G = Grade		

		Q	ty					
ltem	Part	810TR	8611TR	Description				
36	66435	2	2	5/16-18 x 1-3/4 Hex Cap Screw G5				
37	B63160	1	1	Label, Center Moldboard (BLZ 1070)				
38	B70249	2	2	Shoe Assembly				
39	B70251	2	2	Shoe Stem, Inner				
40	B70261	2	2	Shoe, Adjustable				
41	B70262	2	2	Plow Shoe Rod, Adjustable				
42	B70281	2	2	Plow Shoe Handle, Adjustable				
43	B70285	2	2	Plow Shoe Pin, Adjustable				
44	44832	1	1	Label – TR Mount/Dismount				
45	59900	1	1	Label – Warning/Caution, Snowplows				
46	29593	2	2	Label – Multiple Pinch Points (BLZ 1068)				
47	B61049	1	1	Snowplow Guide Assembly (2)				
48	68494	4	4	5/16-18 x 1 Hex Cap Screw G5				
49	91332	4	4	5/16-18 Hex Locknut GB				
50	49501	4	4	Hose, 3/8 x 36 w/F JIC Ends				
51	96192	2	2	Bolt-On Jack				
52	96190	2	2	Bolt-On Jack Assembly, Complete				
53	90238	7	_	1/2-13 x 1-3/4 Carriage Bolt G8				
	80238	_	7	5/8-11 x 2 Carriage Bolt G8				
54	91335	13	_	1/2-13 Hex Locknut GB				
	91337	_	7	5/8-13 Hex Locknut GB				
55	90572	7	_	1/2 Hardened Flat Washer				
	90576	_	7	5/8 Hardened Flat Washer				
56	29256	2	2	Label – Foot Crush Hazard				
	G = Grade							



Item	Part	Qty	Description
1	41173	1	Moldboard
2	59900	1	Label – Information (Warning)
3	B63160	1	Label – POWER PLOW™ Center
4	44832	1	Label – TR Mount/Dismount
5	B61292	1	1/2" Moldboard Cutting Edge
6	B61196	8	1/2-13 x 1-1/2 Carriage Bolt G8
7	B61365	14	1/2-13 Flanged Locknut
8	B61618	2	3/4-10 x 1-1/2 Screw
9	B61593	2	3/4-10 Hex Locknut G8
10	B11989	2	5/8 x 11-1/2 Pin, Hydraulic Cylinder Base End – Slide Box Extend/Retract
			G = Grade

## MOLDBOARD & WING PARTS – 8100TR MODEL

Item	Part	Qty	Description			
11	B61030	2	1/8 x 2-5/8 Hair Cotter Pin			
12	B61198	2	5/8 ID x 3/4 OD x 1 Black Vinyl Cap			
13	B55066	1	Slide Box – PS			
14	B51047	1	Wing Cutting Edge – PS			
15	96326	1	Wing Label – PS			
16	40740	1	Wing – PS			
17	66435	2	5/16-18 x 1-3/4 Hex Cap Screw G5			
18	63575	2	3/4 Hardened Washer			
19	B61384	6	5/16-18 Hex Locknut GC			
20	B70281	2	Plow Shoe Handle, Adjustable			
21	B61400	2	1/8 NPT Grease Fitting			
22	B70262	2	Plow Shoe Rod, Adjustable			
23	B70251	2	Shoe Stem, Inner			
24	B70249	2	Shoe Assembly			
25	B70261	2	Shoe, Adjustable			
26	B70285	2	Plow Shoe Pin, Adjustable			
27	B61341	4	1/4 x 1-1/2 Spring Pin			
28	96190	2	Bolt-On Jack Assembly, Complete			
29	29593	4	Label – Multiple Pinch Points			
30	90490	2	5/8-11 x 4 Eyebolt G2			
31	B61418	2	1/2-13 x 3-1/2 Carriage Bolt G8			
32	B61419	2	1/2-13 x 4-1/2 Carriage Bolt G8			
33	B61622	2	1/2-13 x 5-3/4 Carriage Bolt G8			
34	B51048	1	Wing Cutting Edge – DS			
35	B61049	1	Plow Guide Assembly (set of 2)			
36	68494	4	5/16-18 x 1 Hex Cap Screw G5			
37	91332	4	5/16-18 Hex Locknut GB			
38	40739	1	Wing – DS			
39	96325	1	Wing Label – DS			
40	B61385	2	5/8 x 3 Clevis Pin			
41	90601	2	1/4 x 1-1/2 Cotter Pin			
42	B55042	2	Wing Pivot Pin			
43	B55065	1	Slide Box – DS			
44	91337	6	5/8-11 Hex Locknut GB			
45*	B60347	2	Slide Box Extend/Retract Hydraulic Cylinder (Early ram – see callout on diagram.)			
	43803	2	Ram Assembly 1-1/2 x 13-15/16 DA (Current ram – see callout on diagram.)			
46	B61167	2	3/8 x 2-5/8 x 12-1/2 Extension Spring			
47	29256	2	Label – Foot Crush Hazard			
48	50639	2	Wear Strip – Wing Top			
49	90238	7	1/2-13 x 1-3/4 Carriage Bolt G8			
50	23039	4	Trip Spring			
51	B61416	4	5/8-11 x 7-3/8 Eyebolt G2			
52	91335	7	1/2-13 Hex Locknut GB			
53	90572	7	1/2 Hardened Flat Washer			
			G = Grade			



		Q	ty		
ltem	Part	760TR	860TR	Description	
1	B53021	1	-	Wing – DS	
	B53062-1	_	1	Wing – DS	
2	B53033	1	_	Wing – PS	
	B53075-1	_	1	Wing – PS	
3	B53076	2	2	Spring Guide	
4	B53092	1	-	Moldboard	
	B53091	-	1	Moldboard	
		G	6 = Grade	e SS = Stainless Steel	

## MOLDBOARD & WING PARTS – 760TR & 860TR MODELS

		Qty					
ltem	Part	760TR	860TR	Description			
5	B61049	1	1	Plow Guide Assembly (2)			
6	90576	3	4	5/8 Hardened Washer			
7	91337	3	4	5/8-11 Hex Locknut GB			
8	90238	10	11	1/2-13 x 1-3/4 Carriage Bolt G8			
9	90490	3	4	5/8-11 x 4 Evebolt G2			
10	63575	2	2	3/4 Hardened Washer			
11	B61341	10	10	1/4 x 1-1/2 Spring Pin			
12	B61343	2	2	3/4-10 Hex Nut			
13	B61351	3	_	Trip Spring			
	B61099	_	4	Trip Spring			
14	90601	2	2	1/4 x 1-1/2 Cotter Pin			
15	91335	10	11	1/2-13 Hex Locknut GB			
16	B61400	2	2	1/8 NPT Grease Fitting			
17	B61561	1	_	Cutting Edge			
	B61570	_	1	Cutting Edge			
18	B61563	2	2	5/8 x 3-3/8 Clevis Pin			
19	B61564	2	_	Wing Mount Pin			
10	B61572	_	2	Wing Mount Pin			
20	69695	2	2	Compression Spring			
21	B61576	2	2	3/4 Hardened Washer SS			
22	B61577	4	4	Jight Latuetteu Washel 33 Wing Spring Mount Din			
22	B61578	2	-	Cable Assembly			
25	B61573	2	2	Cable Assembly			
24	B61608	1	2	Wing Cutting Edge - DS			
24	B61610	1	1	Wing Cutting Edge – DS			
25	B61600	1	1	Wing Cutting Edge - DS			
25	D01003	1	1	Wing Cutting Edge - PS			
26	D01011	-	י ר	Plug Ø1.00 Einishing			
20	D01014	2	2	3/4 10 Hox Jam Nut			
21	66/35	2	2	5/16-18 x 1-3/4 Hex Cap Screw C5			
20	D62171	2	2	Jahol Wing BS			
29	06328	1	-	Label, Wing PS			
20	90320	-	I	Label, Wing – FS			
30	90323	I	-	Label, Wing – DS			
21	90327 D62175	-	1	Label, Willy – DS			
20	44022	1	1	Label, Center Molaboard (BLZ 1005)			
32	4403Z	1 2	1 2	Label – TR Mount/Dismount			
33	D70249	2	2	Shoe Assembly			
34	D70201	2	2	Shoe Adjusteble			
35	B70201	2	2	Shoe, Adjustable			
30	B70262	2	2	Plow Shoe Rod, Adjustable			
31	B70281	2	2	Plow Shoe Handle, Adjustable			
38	B/0285	2	2	PION STIDE PIN, ADJUSTADIE			
39	29593	2	2				
40	68494	4	4	5/10-18 X 1 Hex Cap Screw G5			
41	91332	4	4	5/16-18 LOCKNUT GB			
42	59900	1	1	Label – Warning/Caution, Snowplows			
43	90572	10	11	1/2 Hardened Flat Washer			
44	29256	2	2	Label – Foot Grush Hazard			
	G = Grade SS = Stainless Steel						



	42408 Blade Assembly						
Item	Part	Qty	Description				
1	42409	1	Moldboard (w/labels)				
2	49799	1	Noldboard Cutting Edge Kit				
3	63986	8	5/8-11 x 2-1/2 Carriage Bolt G5				
4	91337	14	5/8-11 Hex Locknut GB	5/8-11 Hex Locknut GB			
5	96190	2	Bolt-On Jack Assembly, Complete				
6	66435	2	5/16-18 x1-3/4 Hex Cap Screw G5				
7	B61384	2	5/16-18 Hex Locknut GC				
8	B70281	2	Plow Shoe Handle, Adjustable				
9	B70262	2	Plow Shoe Rod				
10	63575	2	3/4 Hardened Washer				
11	B61400	2	1/8 NPT Grease Fitting				
ns	42941	1	Label – Moldboard Wing DS				
12	42942	1	Label – Moldboard Wing PS				
13	42385	1	Wing – DS				
14	42383	1	Wing Cutting Edge Kit (both DS and PS)				
15	42943	2	1/4 x 1 Coiled Spring Pin				
16	42397	2	Spring Guide Pin Kit				
17	43528	2	Wear Strip – Wing Top				
ns	42392	1	Spring Guide DS				
18	42393	1	Spring Guide PS				
19	42725	2	Compression Spring				
20	29593	4	Label – Multiple Pinch Points				
21	29256	2	Label – Foot Crush Hazard				
22	44832	1	Label – TR Mount/Dismount				
23	42396	2	Hinae Pin Kit				
24	B63175	1	_abel. Center Moldboard (BLZ 1085)				
25	B61614	2	Plug. Ø1.00 Finishing				
26	42386	1	Wing – PS				
27	59900	1	Label – Warning/Caution, Snowplows				
28	90576	14	5/8 Hardened Flat Washer				
29	5572	6	5/8-11 x 2 Carriage Bolt G5				
30	66439	2	3/8-16 x 1-1/2 Hex Cap Screw G5				
31	91333	2	3/8-16 Hex Locknut GB				
32	42395	4	Bumper Kit				
33	B70251	2	Shoe Stem. Inner				
34	B70261	2	Shoe				
35	B61341	4	1/4 x 1-1/2 Spring Pin				
36	B70285	2	Adjustable Plow Shoe Pin				
37	96192	2	Bolt-On Jack				
38	90238	8	1/2-13 x 1-3/4 Carriage Bolt G8				
39	90572	8	1/2 Hardened Flat Washer				
40	91335	8	1/2-13 Hex Locknut GB				
41 <sup>‡</sup>	42382	1	Back Drag Edge				
42 <sup>‡</sup>	42384	1	Deflector Kit				
ns‡	B52093	1	Snowplow Airfoil				
	ns = not s	shown	± = Accessory Only	G = Grade			



\* Pins used to lock wings in straight position

	Blade Components					
Item Part Qty Description						
1	B61615	2	3/4-10 Hex Jam Nut			
2	B61343	2	3/4-10 Hex Nut			
3	90576	4	5/8 Hardened Flat Washer			
4	42389	2	Cable Assembly w/Hardware (incl. items 1, 2, 5 and 6)			
5	B61563	2	0.625 x 2.33 Clevis Pin			
6	90601	2	1/4 x 1-1/2 Cotter Pin			
7	42738	2	3/4 x 9 Clevis Pin			
8	91962	2	1/8 Hairpin Cotter			
9	91337	4	5/8-11 Hex Locknut GB			
10	90490	4	5/8-11 x 4 Eyebolt G2			
11	50655	4	Eyebolt Kit			
12	23039	4	Trip Spring			
13	B61049	2	Blade Guide Assembly			
14	68494	4	5/16-18 x 1 Hex Cap Screw G5			
15	91332	4	5/16-18 Hex Locknut GB			
			G = Grade			



		Qty				
Item	Part	810TR	Description			
1	B52151	1	Pivot Beam			
2	95739	4	3/4 x 5 Clevis Pin			
3	B50069	2	3/4 x 3 Clevis Pin			
4	B50071	2	3/4 x 3-41/64 Clevis Pin			
5	40571	2	Elbow, 90° –6 M JIC/–6 M ORB			
6*	B60029	2	Hydraulic Cylinder, Snowplow Angle (Early ram – see callout on diagram.)			
	43801	2	Ram Assembly 1-3/4 x 10 (Current ram – see callout on diagram.)			
7	B60545	1	Manifold			
8	B61008	1	1-8 Hex Locknut GC			
9	29233	9	3/8 Hardened Washer			
10	B61034	3	3/8-16 Hex Locknut GC			
11	50605	1	1-8 x 9-1/2 Hex Cap Screw G5 Special			
12	B61203	1	1" Washer			
13	90055	5	3/8-16 x 1-1/4 Hex Cap Screw G8			
14	B61217	2	1-1/2 ID x 2-1/8 OD Grommet, Black Rubber, 60 Durometer			
15	B61275	5	3/8-16 U-Nut			
16	B61307	1	3/8 Lockwasher, Internal/External Tooth			
17	66439	1	3/8-16 x 1-1/2 Hex Cap Screw G5			
18	90601	8	1/4 x 1-1/2 Cotter Pin			
19	B61384	4	5/16-18 Hex Locknut GC			
20	44413	2	3/8-16 x 4-1/2 Hex Cap Screw G5			
21	B61638	16	1/2-13 Hex Jam Nut			
22	B61644	3	Clamp			
23	66435	4	5/16-18 x 1-3/4 Hex Cap Screw G5			
24	B61720	16	1/2-13 x 2 Hex Flat Head Screw G8			
25	B70265	1	A-Frame			
26	B70272	2	A-Frame Mount Reinforcement			
27	B70273	1	A-Frame Mount			
28	B70277	2	Pivot Pin			
29	B70278	2	A-Frame Mount Reinforcement			
30	B70287	1	A-Frame Cover			
31	B70291	1	A-Frame Bearing Rod Link			
32	B70293	1	Grip Step Skid Mat			
33	B70294	4	Spacer Bushing			
34	B70295	4	A-Frame Grommet			
35	B60223	2	Hose, 3/8 x 26 w/F JIC Ends			
36	29328	1	Label – Hydraulic Guide, Tractor Plow POWER PLOW™ Models			
			G = Grade			



### A-FRAME & PIVOT BEAM PARTS – 8611TR MODEL

		Qty				
Item	Part	8611TR	Description			
1	95739	4	3/4 x 5 Clevis Pin			
2	B41077	1	Pivot Beam			
3	40571	2	Elbow, 90° –6 M JIC/–6 M ORB			
4*	B60324	2	Hydraulic Cylinder, Snowplow Angle (Early ram – see callout on diagram.)			
1	43805	2	Ram Assembly 2 x 10 (Current ram – see callout on diagram.)			
5	B60522	1	Manifold			
6	B61008	1	1-8 Hex Locknut GC			
7	29233	24	3/8 Hardened Washer			
8	B61034	11	3/8-16 Hex Locknut GC			
9	50605	1	1-8 x 9-1/2 Hex Cap Screw G5 Special			
10	B61203	1	1" Washer			
11	90055	4	3/8-16 x 1-1/4 Hex Cap Screw G8			
12	B61217	2	1-1/2 ID x 2-1/8 OD Grommet, Black Rubber, 60 Durometer			
13	B61275	4	3/8-16 U-Nut			
14	B61307	1	3/8 Lockwasher, Internal/External Tooth			
15	66439	1	3/8-16 x 1-1/2 Hex Cap Screw G5			
16	80239	4	5/8-11 x 1-1/2 Hex Cap Screw G8			
17	90601	6	1/4 x 1-1/2 Cotter Pin			
18	44413	2	3/8-16 x 4-1/2 Hex Cap Screw G5			
19	B61644	3	Clamp			
20	B61717	2	1 x 3-1/4 Clevis Pin			
21	90118	8	3/8-16 x 1-3/4 Hex Cap Screw G5			
22	B70089	1	Receiver			
23	B70102	2	Back Wear Plate			
24	B70103	2	Slide Stop Plate			
25	B70104	4	Front Wear Plate			
26	B70105	4	Hitch Wear Pad			
27	B70106	1	A-Frame			
28	B70121	4	Side Wear Plate			
29	B70122	4	Side Wear Pad Retainer			
30	B70143	1	Rubber A-Frame Mat			
31	B70240	8	0.75 OD x 0.44 ID x 0.25 Bushing			
32	B70247	1	A-Frame Cover			
33	B70295	2	A-Frame Grommet			
34	49501	2	Hose, 3/8 x 36 w/F JIC Ends			
35	29328	1	Label – Hydraulic Guide, Tractor Plow POWER PLOW™ Models			
			G = Grade			



		Qty				
Item	Part	760TR	860TR	8600TR	Description	
1	B16536	2	2		Bushing, Plow Pivot	
	42410			2	Pivot Bushing Kit	
2	95739	4	4	4	3/4 x 5 Clevis Pin	
3	B41056	1	_	-	Pivot Beam	
	B41066	_	1	1	Pivot Beam	
4	B50071	2	2	2	3/4 x 3-41/64 Clevis Pin	
5	40571	2	2	2	Elbow, 90° –6 M JIC/–6 M ORB	
6*	B60065	2	_	_	Angle Cylinder (Early ram – see callout on diagram.)	
	43813	2	_	_	Ram Assembly 1-3/4 x 9-3/8 (Current ram – see callout on diagram.)	
	B60029	_	2	2	Angle Cylinder (Early ram – see callout on diagram.)	
	43801	_	2	2	Ram Assembly 1-3/4 x 10 (Current ram – see callout on diagram.)	
7	B60534	1	1	1	Manifold	
8	B60539	2	2	2	Hydraulic Adapter, –6 F JIC/–6 M JIC/–6 M JIC	
9	B61008	1	1	1	1-8 Hex Locknut GC	
10	29233	5	5	5	3/8 Hardened Washer	
11	B61039	4	4	4	1/4 Hardened Washer	
12	B61203	1	1	1	1" Washer	
13	90055	5	5	5	3/8-16 x 1-1/4 Hex Cap Screw G8	
14	B61275	5	5	5	3/8-16 U-Nut	
15	B61331	1	_	_	1-8 x 8-1/2 x 7-1/8 Hex Cap Screw	
	50605	_	1	1	1-8 x 9-1/2 Hex Cap Screw G5 Special	
16	90601	6	6	6	1/4 x 1-1/2 Cotter Pin	
17	B61384	6	6	6	5/16-18 Hex Locknut GC	
18	B61616	4	4	_	1-1/8 Retaining Ring, Heavy Duty	
19	B61638	16	16	16	1/2-13 Hex Jam Nut	
20	B61644	2	2	2	Clamp	
21	91331	2	2	2	1/4-20 Hex Locknut GB	
22	66435	4	4	4	5/16-18 x 1-3/4 Hex Cap Screw G5	
23	B61720	16	16	16	1/2-13 x 2 Hex Flat Head Screw G8	
24	94498	2	2	2	1/4-20 x 2-1/4 Hex Cap Screw SS	
25	B70272	2	2	2	A-Frame Mount Reinforcement	
26	B70273	1	1	1	A-Frame Mount	
27	B70277	2	2	2	Pivot Pin	
28	B70278	2	2	2	A-Frame Mount Reinforcement	
29	B70287	1	1	1	A-Frame Cover	
30	B70291	1	1	1	A-Frame Bearing Rod Link	
31	B70293	1	1	1	Grip Step Skid Mat	
32	B70294	4	4	4	Spacer Bushing	
33	B70295	4	4	4	A-Frame Grommet	
34	B70324	1	_	_	A-Frame	
	B70320	_	1	1	A-Frame	
35	49501	2	2	2	Hose, 3/8 x 36 w/F JIC Ends	
36	B60473	2	2	2	Hose, 3/8 x 115 w/F JIC Ends	
37	66439	_	_	2	3/8-16 x 1-1/2 Hex Cap Screw G5	
38	91333	_	_	2	3/8-16 Hex Locknut GB	
-		G	G = Grade		SS = Stainless Steel	



		Qty					
Item	Part	810TR	8611TR	Description			
1	B60545	1	_	Manifold Assembly			
	B60522	-	1	Manifold Assembly			
2	B60168	1	1	Relief Valve – 3000 psi			
3	B60278	2	_	Relief Valve – 1700 psi			
	B60226	-	2	Relief Valve – 2800 psi			
4	B60279	2	_	Relief Valve – 1500 psi			
	B60227	_	2	Relief Valve – 2650 psi			
5	B60528	2	2	Cartridge Valve – 4-way, 2-position			
6	B60529	1	1	Cartridge Valve – 4-way, 2-position			
7	B62263	3	3	Coil, 12V DC			
8	B60530	2	2	Orifice Disc Ø0.060			
9	B60007	2	2	Connector, Short, –6 M JIC/–6 M ORB			
10	B60340	1	1	Connector, Short, -8 M JIC/-8 M ORB			
11	56695	6	_	Elbow, 45° –6 M JIC/–6 M ORB			
	B60007	_	6	Connector, Short, –6 M JIC/–6 M ORB			
12	B60052	6	6	1/2-20 Hex Jam Nut			
13	B60531	1	1	Hose, 1/2 x 115 w/F JIC Fittings			
14	B60473	2	2	Hose, 3/8 x 115 w/ F JIC Fittings			



			Qty	
Item	Part	760TR	860TR & 8600TR	Description
1	B60534	1	1	Manifold Assembly
2	B60168	1	1	Relief Valve – 3000 psi
3	B60403	2	2	Connector, Short, -6 M JIC/-8 M ORB



1. Durable, 3/8" thick, 2-ply Rubber Snow Deflector keeps snow off your windshield. The one-piece design allows for wing clearance and provides optimum snow deflection. Shipped with a vinyl label and complete mounting hardware.



 Long lasting POWER PLOW<sup>™</sup> polyurethane moldboard and wing cutting edges resist gouging, provide superior wear life and effectively reduce plowing noise. Ideal for all plowing conditions. Shipped with mounting hardware.



2. Our 3/8" thick wing cutting edges withstand heavy use on the roughest road surfaces and provide added material for protection against sidewalk curb wear. Mounting hardware included.



 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. 12 oz spray cans.

				Qua	ntity					
ltem	Part	810TR	8100TR	8611TR	760TR	860TR	8600TR	Description		
1	B61241	1	1	_	_	_	_	Rubber Snow Deflector w/Hardware		
	B52087	_	-	1	_	_	-	Rubber Snow Deflector w/Hardware		
	42384	_	_	_	_	_	1	Rubber Snow Deflector w/Hardware		
2	B61288	1	1	-	_	-	_	3/8 Wing Cutting Edges w/Hardware (T1)		
	B51114	_	_	1	-	-	-	Extended-Wear Wing Cutting Edges		
	ns = not shown									

				Qua	ntity						
Item	Part	810TR	8100TR	8611TR	760TR	860TR	8600TR	Description			
3	B61536	1	1	_	-	-	-	Poly Moldboard & Wing Cutting Edges w/Hardware			
	B61539	_	-	1	-	_	_	Poly Moldboard & Wing Cutting Edges w/Hardware			
4	B61219	1	1	1	1	1	1	BLIZZARD <sup>®</sup> High-Performance Spray Paint, White			
	B63073	1	1	1	1	1	1	BLIZZARD High-Performance Spray Paint, Black			
ns	42382	_	_	_	_	_	1	Back Drag Edge			
ns	B21034	-	_	_	1	1	1	SPEEDWING <sup>™</sup> Spring Tool			
	Kits										
ns	B61277‡	1	1	_	-	-	-	Hardware Kit, Snowplow Assembly Parts			
ns	B61665 <sup>‡</sup>	-	1	_	-	-	-	Hardware Kit, Snowplow Assembly Parts			
ns	B61479	-	_	1	-	-	-	Hardware Kit, Snowplow Assembly Parts			
ns	B61724 <sup>‡</sup>	-	_	_	1	_	-	Hardware Kit, Snowplow Assembly Parts			
ns	B61723‡	-	-	—	-	1	-	Hardware Kit, Snowplow Assembly Parts			
ns	42416‡	-	-	-	-	-	1	Hardware Kit, Snowplow Assembly Parts			
ns	B60535**	1	1	-	-	-	-	Hydraulic Adapter Kit (incl. 40571 [2], B60007 [4],56695 [6], B60340 [1])			
ns	B60532**	_	_	1	_	_	-	Hydraulic Adapter Kit (incl. 40571 [2], B60007 [6], 56695 [4], B60340 [1])			
ns	B60540	_	-	_	1	1	1	Hydraulic Adapter Kit (incl. 40571 [2], B60403 [2], B60539 [2])			
ns	B60536	1	1	_	-	-	-	Hydraulic Hose Kit (incl. B60223 [2], 49501 [4], B60473 [2], B60531 [1])			
ns	B60533	-	-	1	_	-	-	Hydraulic Hose Kit (incl. 49501 [1], B60473 [2], B60531 [1])			
ns	B60541	_	_	_	1	1	1	Hydraulic Hose Kit (incl. 49501 [2], B60473 [2])			
ns	B61255	1	1	1	1	1	_	Hardware Kit, Moldboard Cutting Edge			
ns	B52067	1	1	_	_	-	_	Moldboard Cutting Edge Kit w/Hardware			
ns	B52095	_	_	1	_	_	_	Moldboard Cutting Edge Kit w/Hardware			
ns	B61647	_	_	_	1	_	_	Moldboard Cutting Edge Kit w/Hardware			
ns	B61648	_	_	_	_	1	_	Moldboard Cutting Edge Kit w/Hardware			
ns	49799	_	_	_	_	_	1	Moldboard Cutting Edge Kit w/Hardware			
ns	B61431	1	1	_	_	_	_	Hardware Kit Wing Cutting Edge			
ns	B61387	_	_	1	_	_	_	Hardware Kit, Wing Cutting Edge			
ns	B61646	_	_	_	1	1	_	Hardware Kit, Wing Cutting Edge			
ns	B51104	1	1	_	_	_	_	Wing Cutting Edges Kit w/Hardware			
ns	B51103	_	_	1	_	_	_	Wing Cutting Edges Kit w/Hardware			
ns	B61649	_	_	_	1	_	_	Wing Cutting Edges Kit w/Hardware			
ns	B61650	_	_	_	_	1	_	Wing Cutting Edges Kit w/Hardware			
ns	42383	_	_	_	_	_	1	Wing Cutting Edged Kit w/Hardware			
ns	B60360	1	1	_	1	1	1	Combo Seal Kit. Cvl B60029/B60065			
ns	43792	1	1	_	1	1	1	Seal Kit, Ram Assembly 43801, 43813			
ns	B60365	_	_	1	_	_	_	Combo Seal Kit. Cvl B60207			
ns	43793	_	_	1	_	_	_	Seal Kit. Ram Assembly 43802			
ns	B60366	_	_	1	_	_	_	Combo Seal Kit, Cyl B60221/B60324			
ns	43795	_	_	1	_	_	_	Seal Kit, Ram Assembly 43804, 43805			
ns	B60373	1	1	_	_	_	_	Combo Seal Kit, Cyl B60347			
ns	43794	1	1	_	_	_	_	Seal Kit, Ram Assembly 43803			
	ns = not shown										

\*\* Does not include hydraulic adapters B60007 for manifold ports P2 & P3.



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