



## Operation & Maintenance Manual



QP Models 6,000 - 10,000 lb.

QPXT Models 10,000 - 15,000 lb.

QPHD Models 15,000 - 30,000 lb.

# QuattroPlow™



**REMEMBER:** Register your product! No claims for warranty shall be considered unless your product registration card is completed online within 30 days of purchase. Go to: [snowwolfplows.com/registration](https://snowwolfplows.com/registration).

# MANUFACTURER'S WARRANTY

## Two-Year Limited Warranty

SNOWWOLF International, hereinafter referred to as SNOWWOLF, warrants new SNOWWOLF SNOW PLOWS at the time of delivery to the original purchaser, to be free from defects in material and workmanship when properly set up and operated in accordance with the recommendations set forth by SNOWWOLF.

SNOWWOLF'S liability for any defect with respect to accepted goods shall be limited to repairing the goods at a SNOWWOLF designated location or at an authorized dealer location, or replacing them as SNOWWOLF shall elect. The above shall be in accordance with SNOWWOLF warranty adjustment policies. SNOWWOLF'S obligation shall terminate twenty-four (24) months after the delivery of the goods to original purchaser including cutting edge breakage or wear. This warranty shall not apply to any machine or attachment which shall have been repaired or altered outside the SNOWWOLF factory or authorized SNOWWOLF dealership or in any way so as in SNOWWOLF'S judgment, to affect its stability or reliability, nor which has been subject to misuse, negligence or accident beyond the Company recommended machine rated capacity.

## Warranty Claim

To submit a warranty claim, a return authorization from SNOWWOLF must be obtained. The failed part may then be returned. Tampering with the failed part may void the warranty. This warranty does not include freight or delivery charges incurred when returning machinery for servicing. Dealer mileage, service calls, and pickup/delivery charges are the customers' responsibility.

## Exclusions of Warranty

Except as otherwise expressly stated herein, SNOWWOLF makes no representation or warranty of any kind, expressed or implied, AND MAKES NO WARRANTY OF MERCHANTABILITY IN RESPECT TO ITS MACHINERY AND/OR ATTACHMENTS ARE FIT FOR ANY PARTICULAR PURPOSE. SNOWWOLF shall not be liable for incidental or consequential damages for any breach of warranty, including but not limited to inconvenience, rental of replacement equipment, loss of profits or other commercial loss. Upon purchase, the buyer assumes all liability for all personal injury and property resulting from the handling, possession, or use of the goods by the buyer.

No agent, employee, or representative of SNOWWOLF has any authority to bind SNOWWOLF to any affirmation, representation or warranty concerning its machinery and/or attachments except as specifically set forth herein.

This warranty policy supersedes any previous documents.

**No claims for warranty shall be considered unless warranty registration is sent to SNOWWOLF within 30 days of purchase!**

Manufactured By:



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## Owner Information

Thank you for your decision to purchase a SnowWolf QuattroPlow. To ensure maximum performance of your equipment, it is mandatory that you thoroughly study the Operator's Manual and follow the recommendations. Proper operation and maintenance are essential to maximize equipment life and prevent personal injury.

Operate and maintain this equipment in a safe manner and in accordance with all applicable local, state, and federal codes, regulations and / or laws. Follow all on-product labeling and instructions.

Make sure that all personnel have read this Operator's Manual and thoroughly understand safe and correct operating, installation and maintenance procedures.

SnowWolf is continually working to improve its products. SnowWolf reserves the right to make any improvements or changes as deemed practical and possible without incurring any responsibility or obligation to make any changes or additions to equipment sold previously.

Although great care has been taken to ensure the accuracy of this publication, SnowWolf makes no warranty or guarantee of any kind, written or expressed, implied or otherwise with regard to the information contained within this manual. SnowWolf assumes no responsibility for any errors that may appear in this manual and shall not be liable under any circumstances for incidental, consequential or punitive damages in connection with, or arising from the use of this manual.

Keep this manual available for frequent reference. All new operators or owners must review the manual before using the equipment and annually thereafter. Contact your SnowWolf Attachments Dealer for assistance, information, or additional copies of the manual. Contact [www.snowwolfplows.com](http://www.snowwolfplows.com) or call 1-800-905-2265 for a complete list of dealers in your area.

## Serial Number Location

Please record attachment information in the space provided for future reference.

**Model Number:** \_\_\_\_\_

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

**Dealer Name:** \_\_\_\_\_

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

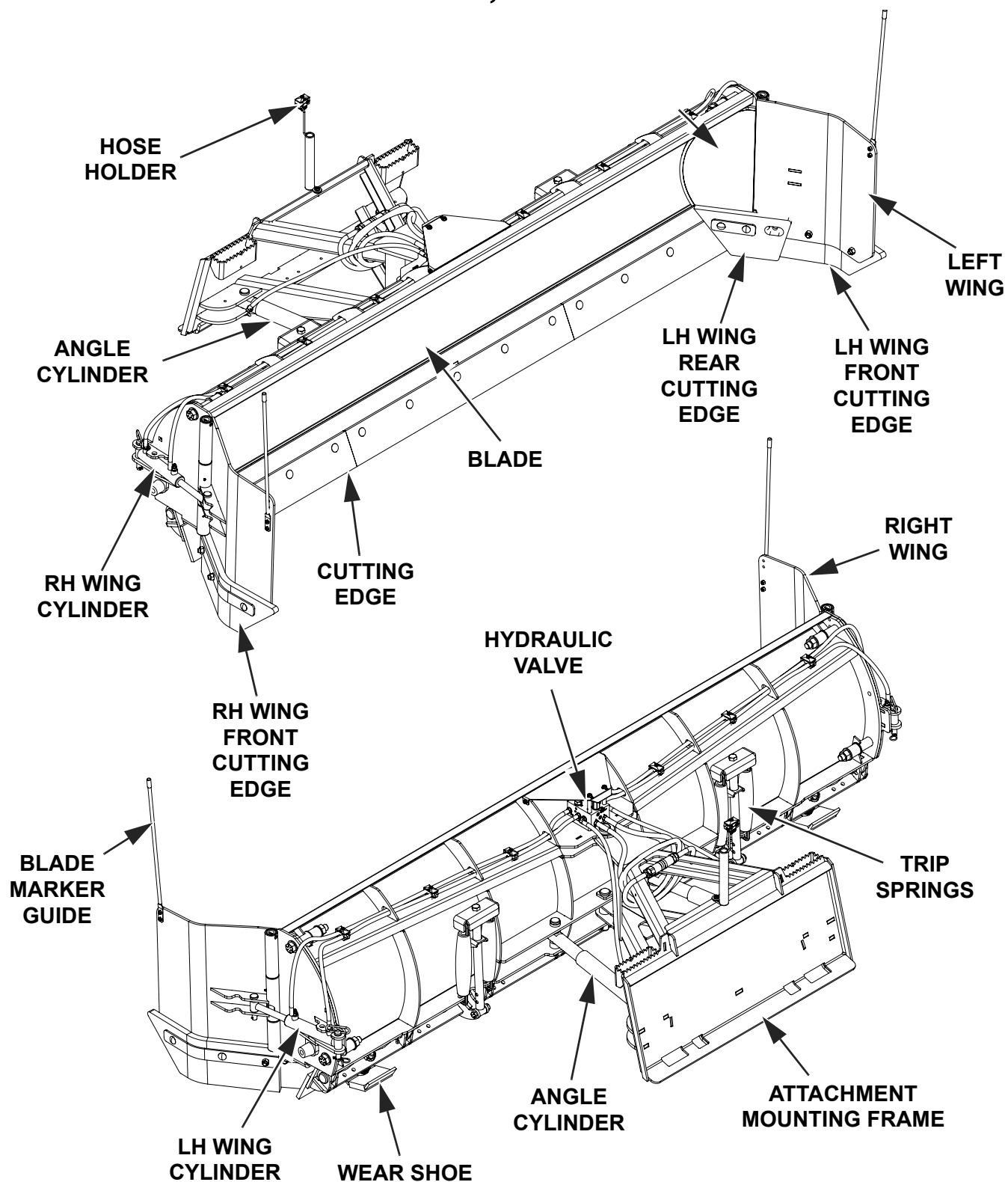
**Date of Purchase:** \_\_\_\_\_

Always use the serial number of the QuattroPlow when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or may require a different procedure in doing a specific service operation.

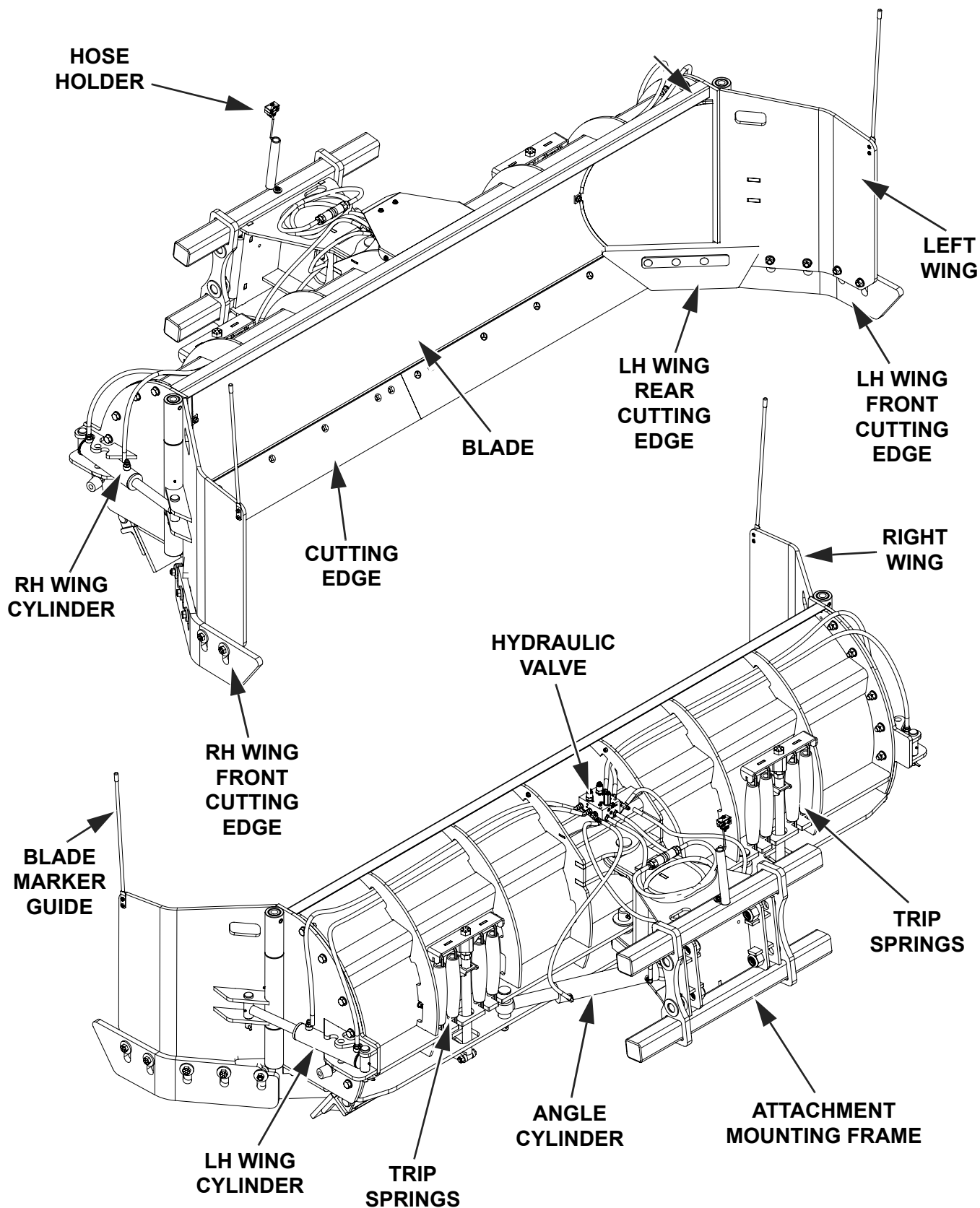
**NOTE: This document and the information provided are the property of SnowWolf and may only be used as authorized by SnowWolf.**

The serial number plate is located on the rear of the QuattroPlow moldboard.

# Attachment Identification, QP and QPXT Models



## Attachment Identification, HD Models



## QP Models Standard Items

- Trip Springs
- Universal Skid Steer Compatible
- UltraMAX HD Hydraulic Cylinder

## QP Models Options

- QP-102, 7-FT Moldboard
- QP-114, 8-FT Moldboard
- QP-126, 9-FT Moldboard
- QP-138, 10-FT Moldboard
- Wear Shoes
- Active Edge Cutting Edge
- Soft Touch Cutting Edge
- Poly Wing Edge Kit
- Steel Wing Edge Kit
- Auto Wing Manifold
- Power Wing Manifold
- Standard A Frame
- Flex Frame
- 3 PT Frame
- Spill Guard

## QPXT Models Standard Items

- Flex Frame
- AR 400 Steel Wing Edges
- Trip Springs
- Universal Skid Steer Compatible
- UltraMAX HD Hydraulic Cylinder
- Spill Guard

## QPXT Models Options

- QPXT-126, 9-FT Moldboard
- QPXT-138, 10-FT Moldboard
- QPXT-150, 11-FT Moldboard
- Wear Shoes
- Active Edge Cutting Edge
- Auto Wing Manifold
- Power Wing Manifold

## QPHD Models Standard Items

- Trip Springs
- AR 400 Steel Wing Edges
- Dual Independent Trip Edges
- Attachment Mounting Frame
- High Carbon Cutting Edge

## QPHD Models Options

- QPHD-146, 10-FT Moldboard
- QPHD-170, 12-FT Moldboard
- Unpainted Weld-On Loader Mount Kit
- Volvo Mount Hooks
- JRB 416 Mount Hooks
- Cat Fusion Mount Hooks
- Cat IT Mount Hooks
- Category II 3 PT Hitch Mount
- Auto Wing Manifold
- Power Wing Manifold

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## Safety Information



### Safety Alert Symbol

This SAFETY ALERT SYMBOL identifies important safety messages on the equipment and in the owner's manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.



### DANGER

The signal word DANGER on the machine and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.



### WARNING

The signal word WARNING on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



### CAUTION

The signal word CAUTION on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



### IMPORTANT

The signal word IMPORTANT identifies procedures which must be followed to avoid damage to the machine.

## Safe Operation Needs A Qualified Operator



### WARNING

#### AVOID SERIOUS INJURY OR DEATH

Operators must receive instructions before operating the machine. Untrained operators can cause serious injury or death.

For an operator to be qualified, he or she must not use drugs or alcoholic drinks which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine and the equipment.

## Owner's Responsibility

Operate and maintain this machine in a safe manner and in accordance with all applicable local, state, and federal codes, regulations and/or laws; and in compliance with on-product labeling and this owner's manual instructions.

Make sure that all personnel have read this owner's manual, and thoroughly understand safe and correct installation, operation and maintenance procedures

Give operating instructions to the operators before allowing them to operate the machine, and at least annually thereafter.

## Importance of Safety

### Operating Safety

- Read and follow instructions in this manual and the machine's Operators Manual before operating.
- The QuattroPlow attachment is intended for use in snow removal. Use of this equipment in any other manner is considered to be contrary to the intended use of the attachment.
- Under no circumstances should young children be allowed to work with this equipment.
- This equipment is dangerous to persons unfamiliar with its operation.
- Check for overhead and / or underground lines before operating equipment (if applicable).
- In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.
- Check that the attachment is securely fastened to the machine.
- Make sure all the machine controls are in the NEUTRAL before starting the machine.
- Operate the equipment only from the operator's position.
- Operate the equipment according to the Operator's Manual.
- When learning to operate the equipment, do it at a slow rate in an area clear of bystanders.
- DO NOT permit personnel to be in the work area when operating the equipment.
- The equipment must be used ONLY on approved machines.
- DO NOT modify the equipment in any way. Unauthorized modification may impair the function and / or safety and could affect the life of the equipment.
- DO NOT make any adjustments or repairs on the equipment while the machine is running.
- Keep shields and guards in place. Replace if damaged.
- DO NOT operate equipment in poor visibility conditions such as fog, darkness, or any conditions that limit clear visibility less than 300 feet (100 m) in front of and to the sides of the equipment.
- DO NOT operate in a work area that has not been inspected for foreign debris and obstacles.
- Remove any foreign objects and clearly mark any objects that cannot be removed.
- Wear safety glasses, gloves, hard hat, hearing protection and other protective clothing when operating or maintaining this equipment.



## Importance of Safety Cont'd

### Fire Prevention Safety

- All fuels, most lubricants and some coolant mixtures are flammable. Flammable fluids that are leaking or spilled onto hot surfaces or onto electrical components can cause a fire.

### Transporting Safety

- Comply with state and local laws governing highway safety and movement of machinery on public roads.
- Check local laws for all highway lighting and marking requirements.
- Always yield to oncoming traffic and move to the side of the road so any following traffic may pass.
- Never allow riders on either machine or equipment.
- If transporting the attachment on a truck or trailer, make sure it is properly secured to the transport vehicle.

### Hydraulic Safety

- Always disconnect hydraulic connections between the machine and the QuattroPlow before performing maintenance to the QuattroPlow.
- Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.
- Check hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.

## WARNING



**Leaking fluids under pressure can enter the skin and cause serious injury or death. Immediate medical attention is required. Wear goggles. Use cardboard to check for leaks.**



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## General Information

### Pre-Operation Inspection

Before operating the QuattroPlow for the first time and each time thereafter, use the following list as a guideline during equipment inspection.

1. Use only a machine of adequate power and weight to operate the QuattroPlow.
2. Check the QuattroPlow and machine's quick tach mounts for damaged, loose or missing parts. Repair as needed before operation.
3. Lubricate the QuattroPlow, see Lubrication on page 31.
4. Check that the QuattroPlow is properly attached to the machine. Be sure retainers are used on the mounting pins.
5. Check that wear shoes (if equipped) are set at the same working depth.
6. Make sure that all guards and shields are in place, secured and functioning as designed.
7. Check oil level in machine's hydraulic reservoir.
8. Check that the hydraulic hoses and couplers are securely attached to the QuattroPlow and to the machine. Make sure hoses are routed and secured to avoid pinch points or strain during movement of the machine/attachment.
9. Check cutting blade for wear or damage.
10. Check hydraulic lines, connections and fittings for hydraulic oil leaks.



## WARNING



**Leaking fluids under pressure can enter the skin and cause serious injury or death. Immediate medical attention is required. Wear goggles. Use cardboard to check for leaks.**

---

# Attachment Inspection

## Daily Inspection

**NOTE: Inspect the attachment by performing a walk around daily before and after use. Use the following inspection checklist as a guideline.**

Check the following items every 10 hours of operation:

- Verify that the QuattroPlow is properly connected to the machine.
- Check that all shields and guards are in place.
- Check for damaged or leaking hydraulic hoses or fittings. Replace if necessary.
- Check moldboard cutting edge for wear or damage. Replace if necessary.
- Check moldboard cutting edge for wear or damage. Replace if necessary.
- Check QP wing.
- Check that all cotter pins that retain pivot/ anchor pins are in place and not damaged or missing.
- Check the QuattroPlow to ensure that all components are secure and that all bolts and nuts are thoroughly tightened.
- Check the QuattroPlow mounting hardware for wear or damage. Inspect the pins and mount (on the attachment) for wear or damage. Repair or replace damaged parts if necessary.

## Monthly Inspection

- Inspect the QuattroPlow for cracks, bends, or excessive wear.
- Check wear shoes (if equipped) for wear.
- Check that all bolts are tight.
- Check moldboard cutting edge and mounting plate for cracks or damage. Replace if necessary.
- Check the wing cutting edge's for cracks or damage. Replace if necessary.
- Check hydraulic lines, connections and fittings for hydraulic oil leaks. Repair or replace damaged parts if necessary.
- Check for damaged or missing decals. Replace if necessary.
- Lubricate as required.



## WARNING

### AVOID SERIOUS INJURY OR DEATH

#### Before servicing the attachment:

- **Always park on a flat level surface.**
- **Lower lift arms and place attachment flat on the ground.**
- **Place all controls in NEUTRAL.**
- **Engage the park brake.**
- **Wait for all moving parts to stop.**
- **Stop the engine and remove the key.**

**SEE MACHINE'S OPERATOR'S MANUAL FOR ADDITIONAL INFORMATION.**

## Attachment Installation



### IMPORTANT



See the machine's Operator's Manual for detailed information on operating the loader.

### Entering The Operator's Position

Use the attachment safety treads, handles and steps (on the machine) to enter the operator's position.

When in the operator's position, lower safety seat bar, start the engine and release the parking brake.

### Leaving The Operator's Position



### WARNING

#### AVOID SERIOUS INJURY OR DEATH

**Before leaving the operator's position:**

- Always park on a flat level surface.
- Lower lift arms and place attachment flat on the ground.
- Place all controls in **NEUTRAL**.
- Engage the park brake.
- Stop the engine and remove the key.
- Wait for all moving parts to stop.

**SEE MACHINE'S OPERATOR'S MANUAL FOR ADDITIONAL INFORMATION.**

Park the machine / attachment on a flat level surface.

Place all controls in neutral, engage the park brake, stop the engine and wait for all moving parts to stop. Leave the operator's position.

### Connecting Attachment To The Machine



### WARNING



#### CRUSH HAZARD

- Before moving the machine, look in all directions and make sure no bystanders, especially small children are in the work area. Do not allow anyone between the machine and attachment when approaching the attachment for connecting.
- Keep fingers and hands out of pinch points when connecting and disconnecting attachment.

Before connecting to the attachment, inspect the machine's mounting plate. (See the machine's Operator's Manual for inspecting the mounting frame).

Enter the operator's position. See "Entering The Operator's Position" on page 21.

Lower the machine's lift arm and tilt the machine's mounting plate forward.

Drive the machine slowly forward until the top edge of the machine's mounting frame is completely under the mounting flange of the QuattroPlow mounting frame.

Slowly raise and tilt the machine's mounting plate back until the QuattroPlow is slightly off the ground and attachment mounting frame fully contacts the front of the machine's mounting plate.

## Connecting Attachment To The Machine (Cont'd)

### **WARNING**

#### **AVOID INJURY OR DEATH**

**Always shut off the machine's engine and apply the parking brake before exiting the machine.**

Stop the engine and engage the parking brake.

Leave the operator's position. See "Leaving The Operator's Position" on page 21.

Engage machine's locking levers / wedges to securely fasten the attachment to the machine's mounting frame. (See the machine's Operation Manual for the correct procedure.)

Visually inspect that the wedge pins are securely fastened into the attachment mounting frame.

### **WARNING**

#### **AVOID SERIOUS INJURY OR DEATH**

**The locking pins / wedges must extend through the holes in the attachment mounting frame. Failure to secure locking pins / wedges can allow attachment to come off.**

**SEE MACHINE'S OPERATOR'S MANUAL FOR ADDITIONAL INFORMATION.**

Engage machine's locking levers / wedges (See the machine's Operator's Manual for detailed information).

## Hydraulic Couplers

### **IMPORTANT**

- **Thoroughly clean the quick couplers before making connections. Dirt can quickly damage the hydraulic system.**

### **WARNING**

#### **AVOID BURNS**

**Hydraulic fluid, fluid tubes, fittings and quick couplers can get hot when running the machine and attachments. Be careful when connecting and disconnecting quick couplers.**

#### ***Connecting Hydraulic Couplers:***

Remove any dirt or debris from the surface of both the male and female couplers, and from the outside diameter of the male coupler. Visually check the couplers for corroding, cracking, damage, or excessive wear. If any of these conditions exist, replace the coupler(s).

**NOTE: The QuattroPlow is supplied with flush face couplers.**

**NOTE: DO NOT attach hoses to high flow lines on a machine equipped with the High Flow Option.**

**NOTE: DO NOT hammer on or heat up couplers to connect or disconnect. Doing so will damage couplers resulting in leaks.**



## Hydraulic Couplers (Cont'd)

Figure 1



Install the QuattroPlow male coupler (Item 1) [Figure 1] into the female coupler. Pull on the coupler connection to verify that the male and female couplers are securely fastened.

Install the QuattroPlow female coupler (Item 2) [Figure 1] onto the male coupler. Pull on the coupler connection to verify that the male and female couplers are securely fastened.

## Checking QuattroPlow Operation

**NOTE:** After installing the QuattroPlow, test all functions before operating the QuattroPlow in the work area.

## WARNING

### AVOID INJURY OR DEATH

- Never start the machine from outside the cab.
- Never operate the machine if any safety device is damaged, disconnected or missing.
- Never exit the machine with the engine running.



## IMPORTANT

It is the operator's responsibility to know which machine control operates each function of the attachment prior to operating the attachment in the work area.

Engage the machine's auxiliary hydraulics. (See the machine's Operation Manual for correct procedure).

Raise the engine RPM.

Check the controls of the QuattroPlow for proper operation.

Exit the machine. (See "Leaving The Operator's Position" on page 21.)

Adjust the wear shoes (if equipped) to desired height. (See "Wear Shoe Adjustment / Replacement (if equipped)" on page 33.)

**NOTE:** Wear shoes (if equipped) must be set to the same height.

Move the machine and QuattroPlow to the work area.

# Operating The Attachment

## Operation



### AVOID INJURY OR DEATH

While operating the machine:

- Always keep seat belt fastened.
- Safety seat bar lowered (if equipped)

Always keep your feet on the pedals or footrests and hands on the controls

Adjust wear shoes (if equipped) to desired height. (See “Wear Shoe Adjustment / Replacement (if equipped)” on page 33.)

Enter the machine. (See “Entering The Operator’s Position” on page 21.)

Start the engine and release the parking brake.

Engage the machine’s auxiliary hydraulics. (See the machine’s Operation Manual for correct procedure.)

Raise the QuattroPlow slightly off the ground.

Set the desired left/right blade angle and up/down tilt.

Regulate the scraping ability of the QuattroPlow by increasing or decreasing the down pressure applied via the tilt cylinders. The angle of the QuattroPlow can be changed at any time by using the auxiliary circuit.

**NOTE: Always be sure the A-frame of your QuattroPlow is level (parallel) with the ground when plowing, to insure proper cutting edge wear.**

**NOTE: The machine speed is determined by the depth and density of the material being moved.**

**NOTE: On extremely uneven ground, raise the boom arms slightly, lower the QuattroPlow to the ground using the tilt cylinders, then put the boom arms in the float position (if machine is equipped) to follow the contours of the ground.**



### AVOID SERIOUS INJURY OR DEATH

Always be aware of overhead obstacles or power lines when stacking snow.

## Attachment Removal

**NOTE:** Put the QuattroPlow on planks or blocks before removing it from the machine to prevent it from settling or sinking in soft / wet ground.

Park the machine and attachment on a flat level surface.

Lower the lift arms and put the QuattroPlow flat on the ground.

Stop the engine and engage the parking brake.

Relieve auxiliary hydraulic pressure. (See the machine's Operator's Manual for correct procedure.)

Leave the operator's position. (See "Leaving The Operator's Position" on page 21.)

Disconnect the auxiliary hydraulic hoses. (See "Hydraulic Couplers" on page 22.)

Disengage the attachment locking levers / wedges. (See the machine's Operator's Manual for correct procedure.)



### AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot during operation. Be careful when connecting and disconnecting hydraulic hoses.

Enter the machine. (See "Entering The Operator's Position" on page 21.)

Start the engine and release the parking brake.

Engage the machine's auxiliary hydraulics. (See the machine's Operation Manual for correct procedure.)

Slowly tilt the machine's mounting plate forward until the attachment mounting frame is free from the machine's mounting plate.

Drive the machine slowly backward, away from the attachment.



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## Maintenance Safety

### **WARNING**

#### **AVOID SERIOUS INJURY OR DEATH**

**Never operate the machine in a closed building. Proper ventilation is required when operating the machine under all circumstances.**

### **WARNING**

#### **AVOID SERIOUS INJURY OR DEATH**

**Stop the engine, release auxiliary hydraulic pressure and disconnect the auxiliary hydraulic hose quick couplers before performing maintenance on the QuattroPlow.**

- Always keep the work area clean and dry.
- Always use personal protection devices such as eye, hand and hearing protection when performing any service or maintenance.
- A fire extinguisher and first aid kit should be readily accessible while performing maintenance on this machine.
- Always relieve hydraulic system pressure before disconnecting the QuattroPlow.
- Always disconnect hydraulic connections between the machine and the QuattroPlow before performing maintenance.
- Before working or doing maintenance on this machine, shut off the engine and remove the key. Make sure the machine's wheels are blocked.
- Never work under the machine or attachment unless the machine or equipment is blocked or supported securely.
- Disconnect the battery (both terminals) before welding on any part of the machine. Failure to do so may cause damage to electrical components.
- When working around batteries, remember that all of the exposed metal parts are "live". Never lay a metal object across the terminals because a spark, short circuit, explosion or personal injury may result.
- Battery posts, terminals and related accessories contain lead and lead compounds. **Wash hands after handling.**
- Never search for leaks with your hands. (See "Hydraulic Safety" on page 15.)
- When replacement parts are necessary, genuine factory replacement parts must be used to restore your equipment to original specifications. SnowWolf will not be responsible for injuries or damage caused by use of unapproved parts and / or accessories.
- When completing service or maintenance on this machine, make sure all shields and guards are installed before placing the machine into service.

## General Maintenance



### AVOID SERIOUS INJURY OR DEATH

**Before operating or servicing system: Read and understand the machine's owners manual. Follow the warnings and instructions in the manual when making repairs, adjustments, or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.**

---

To ensure efficient operation, you should inspect, lubricate, and make necessary adjustments and repairs at regular intervals. Keep good maintenance records and adequately clean your machine after each use.

Proper lubrication is important. Follow all lubrication instructions and schedules included in this section.

#### **Daily Inspection:**

- All components and hardware to ensure equipment is secure and thoroughly tightened.
- Frame and all welds for cracks or damage.
- Wear shoes (if equipped) for wear or damage.
- Mounting frame for proper operation and signs of damage or unusual wear.
- Safety signs and reflectors for damage. Replace any missing or damaged decals.
- Cutting edge for wear or damage.
- Hydraulic hoses and fittings for wear, damage or leaks.

**NOTE: Repair or replace any damaged parts.**

**NOTE: After initial use, or repair/replacement of damaged parts, it is important to check the repaired or replaced parts for proper bolt torque, operation and leaks.**



# QuattroPlow Maintenance

## **WARNING**

**AVOID SERIOUS INJURY OR DEATH**

Always turn off and lockout power before servicing the attachment.

## **WARNING**

**AVOID SERIOUS INJURY OR DEATH**

Always disconnect hydraulic connections between the attachment and the machine before performing any type of maintenance to the QuattroPlow.

## **WARNING**

**AVOID SERIOUS INJURY OR DEATH**

Securely block up the attachment before working underneath.

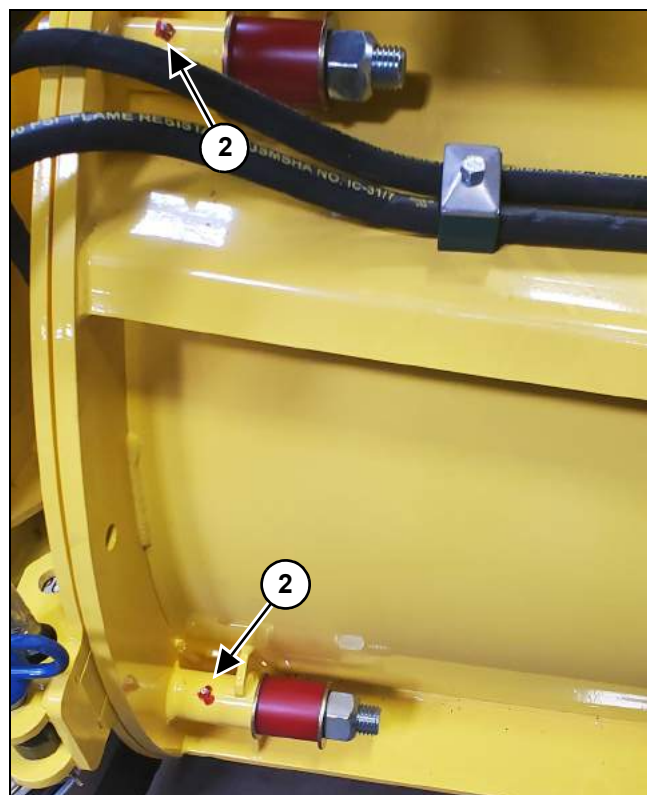
## Lubrication

Figure 1



Apply 3-4 pumps of grease to the QP wing hinge zerk (Item 1) [Figure 1] both sides **every 40 hours** of operation.

Figure 2



Apply 2 pumps of grease to the zerks (Item 2) [Figure 2] both sides **every 40 hours** of operation.

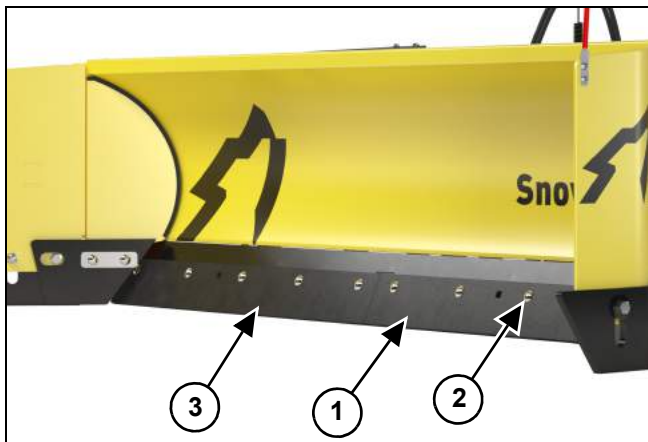
## Cutting Edge Replacement

**NOTE: Replace or flip the bolt-on cutting edge when it wears within 1/2" - 3/4" of the bolt head securing it to the trip-edge. Replace only with genuine SnowWolf cutting edge and hardware.**

1. Park the machine on a level surface with the QuattroPlow properly attached.
2. Lower the QuattroPlow approximately three to four inches off the ground.
3. Engage the parking brake.
4. Shut off the machine's engine, remove the ignition key (if equipped), wait for all moving parts to come to a stop and relieve all pressure in the hydraulic lines.
5. Block and/or support the QuattroPlow with proper lifting device capable of sufficiently supporting the unit's weight.
6. Disconnect hydraulic connections between the attachment and the machine.

**NOTE: The cutting edge and hardware quantity will vary depending upon the QuattroPlow model.**

Figure 3



7. Block the cutting edge (Item 1) [Figure 3], remove the fasteners (Item 2) and remove the cutting edge.

**NOTE: Be cautious as the cutting edge and hardware may be sharp.**

8. Repeat procedure for the cutting edge (Item 3) [Figure 3].
9. Properly dispose of the old cutting edge's and install the new cutting edge's by reversing the steps listed here.

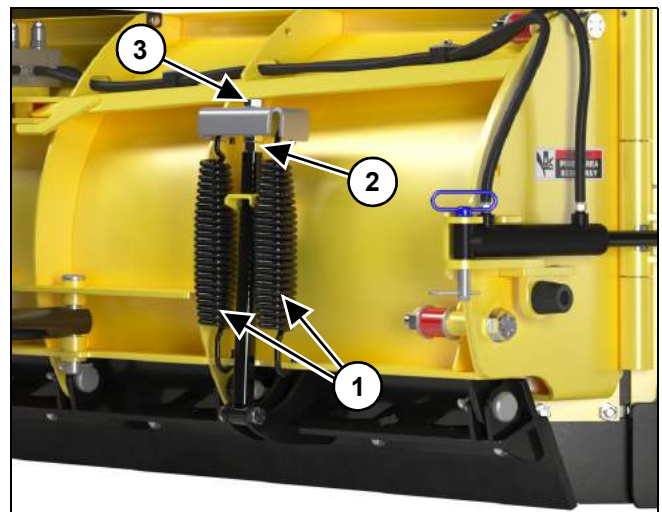
**NOTE: Replace worn or damaged fasteners as needed.**

## Cutting Edge Trip Spring Adjustment / Replacement



**Set trip springs after first use, then twice per year thereafter.**

Figure 4



Cutting edge trip springs (Item 1) [Figure 4] are adjusted by loosening the jam nut (Item 2) located on the rod between each spring, then tightening or loosening the threaded bolt (Item 3).

Springs are adjusted correctly when there is a .001" gap between the coils. Tighten jam nut.

**NOTE: Use grease or "Anti Seize" on the rod and jam nut to prevent rusting.**

**NOTE: Adjust trip springs evenly on both sides.**

## Wear Shoe Adjustment / Replacement (if equipped)

Place blocks under the QuattroPLOW (both sides) to hold the wear shoe off the ground.

Remove the retaining pin, spacers and remove the wear shoe.

Install or remove spacers for desired blade clearance when installing wear shoe. Install retaining pin.

Repeat procedures on the opposite side.

**NOTE: Wear shoes must be set to the same height.**

## Side Wing Cutting Edge Replacement



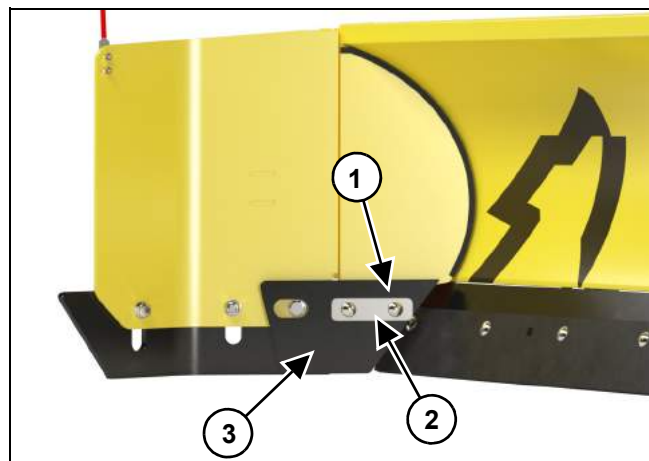
**WARNING**

### AVOID SERIOUS INJURY OR DEATH

Securely block up the attachment before working underneath. Be cautious as the cutting edge and hardware may be sharp.

Place blocks under the QuattroPLOW (both sides) to hold the side wing cutting edges off the ground.

Figure 5

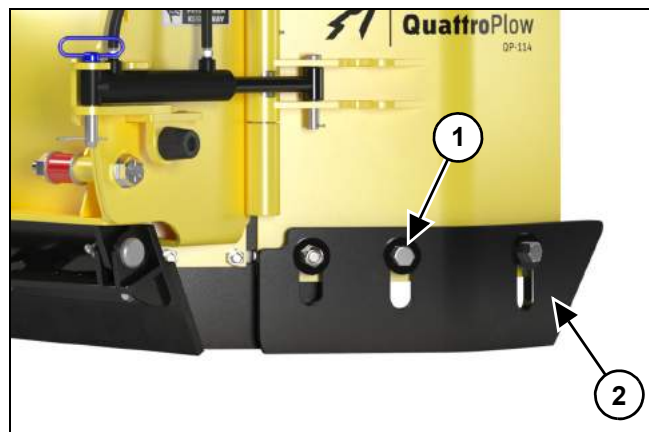


Remove the two nuts and bolts (Item 1) [Figure 5], hold down strip (2) and inner cutting edge (Item 3).

Install new cutting edge, hold down strip, nuts and bolts. Tighten hardware.

Repeat procedures on the opposite side.

Figure 6



Remove the three bolts (Item 1) [Figure 6] washers, bushings, nuts and cutting edge (Item 2).

Install new cutting edge, bolts, washers, bushings and nuts. Tighten hardware.

Repeat procedures on the opposite side.

## Wing Cutting Edge Upgrade Kit Installation

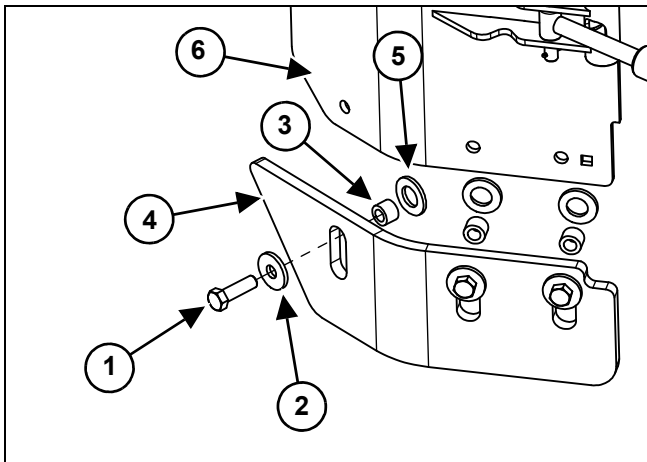


### WARNING

#### AVOID SERIOUS INJURY OR DEATH

Securely block up the attachment before working underneath.

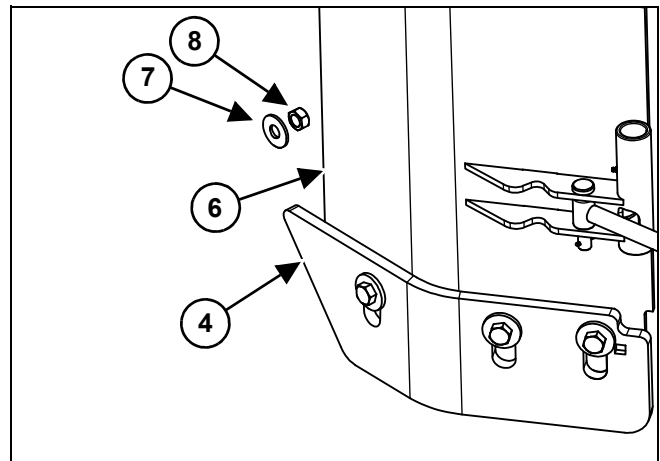
Figure 7



Install the three bolts (Item 1), three washers (Item 2) and three bushings (Item 3) **[Figure 7]** into the cutting edge (Item 4).

Install the three washers (Item 5) (larger / heavy washers), between the cutting edge and the wing (Item 6) **[Figure 7]**.

Figure 8



Install the cutting edge (Item 4) onto the wing (Item 6) **[Figure 8]**. Secure the cutting edge to the wing with three washers (Item 7) and three nuts (Item 8).

Adjust the cutting edge evenly at the desired height and tighten hardware.

Repeat procedures on the opposite side.

# Troubleshooting

| PROBLEM                                                        | CAUSE                                               | SOLUTION                                                         |
|----------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------|
| QuattroPlow leaving snow behind.                               | Cutting edge worn or damaged.                       | Replace main cutting edge / wing cutting edges.                  |
|                                                                | Blade tilted too high.                              | Adjust machines lift and tilt controls.                          |
|                                                                | Wear shoes out of adjustment.                       | Raise or lower wear shoes as needed.                             |
| QuattroPlow does not rotate.                                   | No hydraulic flow.                                  | Check quick coupler connections.<br>Engage auxiliary hydraulics. |
|                                                                | Plugged or kinked hose                              | Replace hose.                                                    |
|                                                                | Hydraulic fluid low.                                | Check machine hydraulic oil level.                               |
| QuattroPlow tilt/rotate functions inconsistent.                | Hydraulic fluid low.                                | Check machine hydraulic oil level.                               |
|                                                                | Faulty angle cylinder.                              | Replace cylinder.                                                |
| QuattroPlow wings won't function on older machine.             | Lack of pressure to operate the wing function.      | Contact SnowWolf on guidance for valve adjustment.               |
| QuattroPlow wings drift slowly while pushing or back dragging. | Wing Relief Pressure too low on Auto wing manifold. | Contact SnowWolf on guidance for valve adjustment.               |
| QuattroPlow wing will not move or moves slow.                  | Wing hinge pin seized.<br>Faulty wing cylinder.     | Lubricate and free wing hinge pin.<br>Replace wing cylinder.     |

# Storage And Return To Service

## Storage

After the seasons use or when the QuattroPlow will not be in use for a period of time, perform the following steps.

- Thoroughly wash the QuattroPlow.
- Make sure all covers, guards and shields are installed.
- Inspect all components and hardware to ensure everything is secure and thoroughly tightened.
- Inspect the frame and all welds for cracks or damage.
- Apply a light coat of grease to the cylinder rods and pivot pins to prevent rust.
- Lubricate the power wing hinges or QP wing hinges.
- Lubricate wing mount bushings.
- Inspect the attachment mounting frame for wear or damage.
- Check that all decals and/or reflectors are in good condition and legible. Replace any damaged or missing decals.
- Cap all loose hose ends.
- Place the QuattroPlow in a dry protected shelter.

**NOTE: Replace or repair any damaged parts**

## Return to Service

After the QuattroPlow has been in storage, it is necessary to follow a list of items to return the QuattroPlow to service.

- Make sure all covers, guards and shields are installed.
- Inspect all components and hardware to ensure everything is secure and thoroughly tightened.
- Inspect the decals and reflectors for missing or damage.
- Install and operate the QuattroPlow and check for correct function.
- Check for leaks. Clean and repair as needed.



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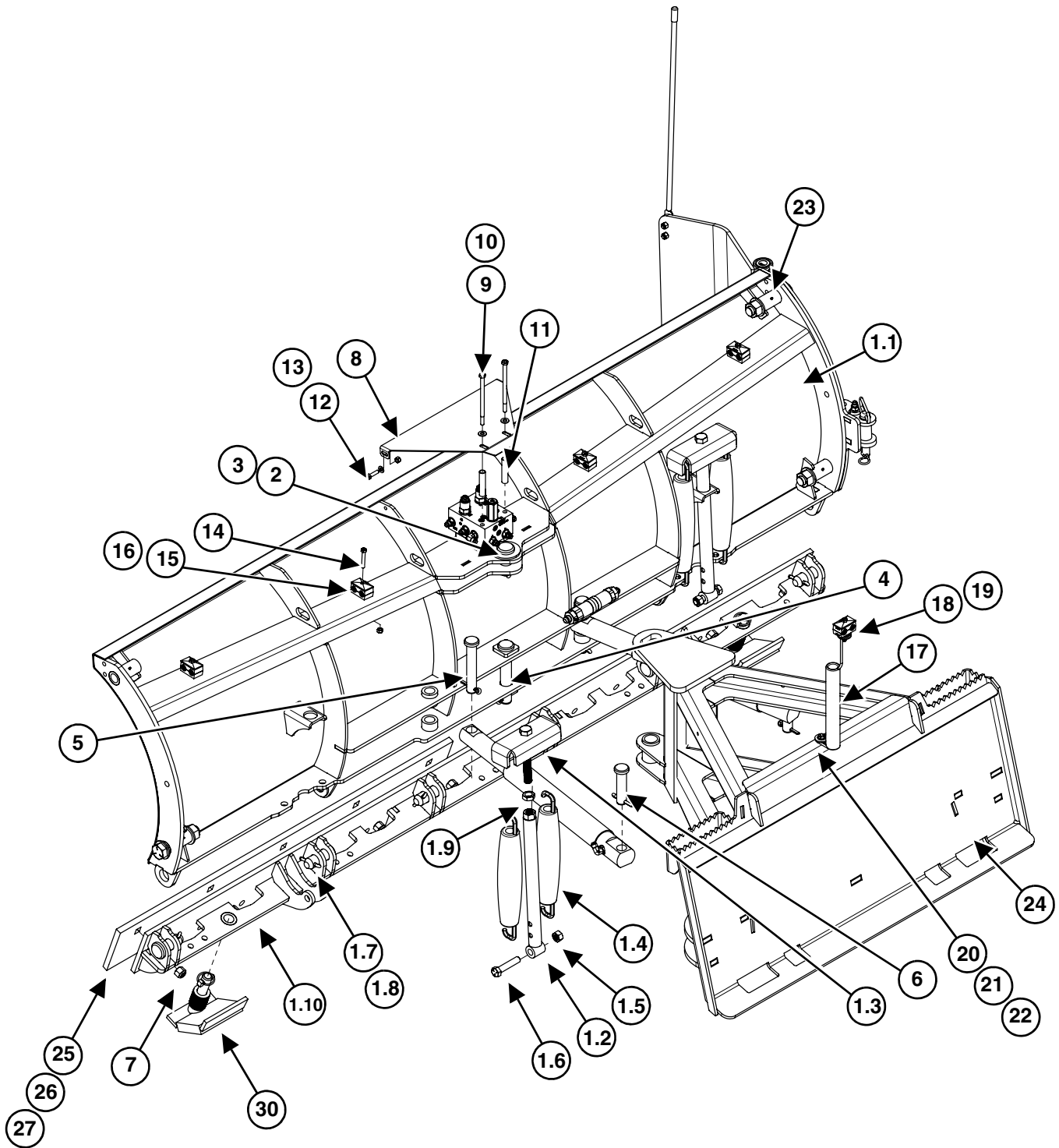




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# Models QP102, QP114, QP126, QP138

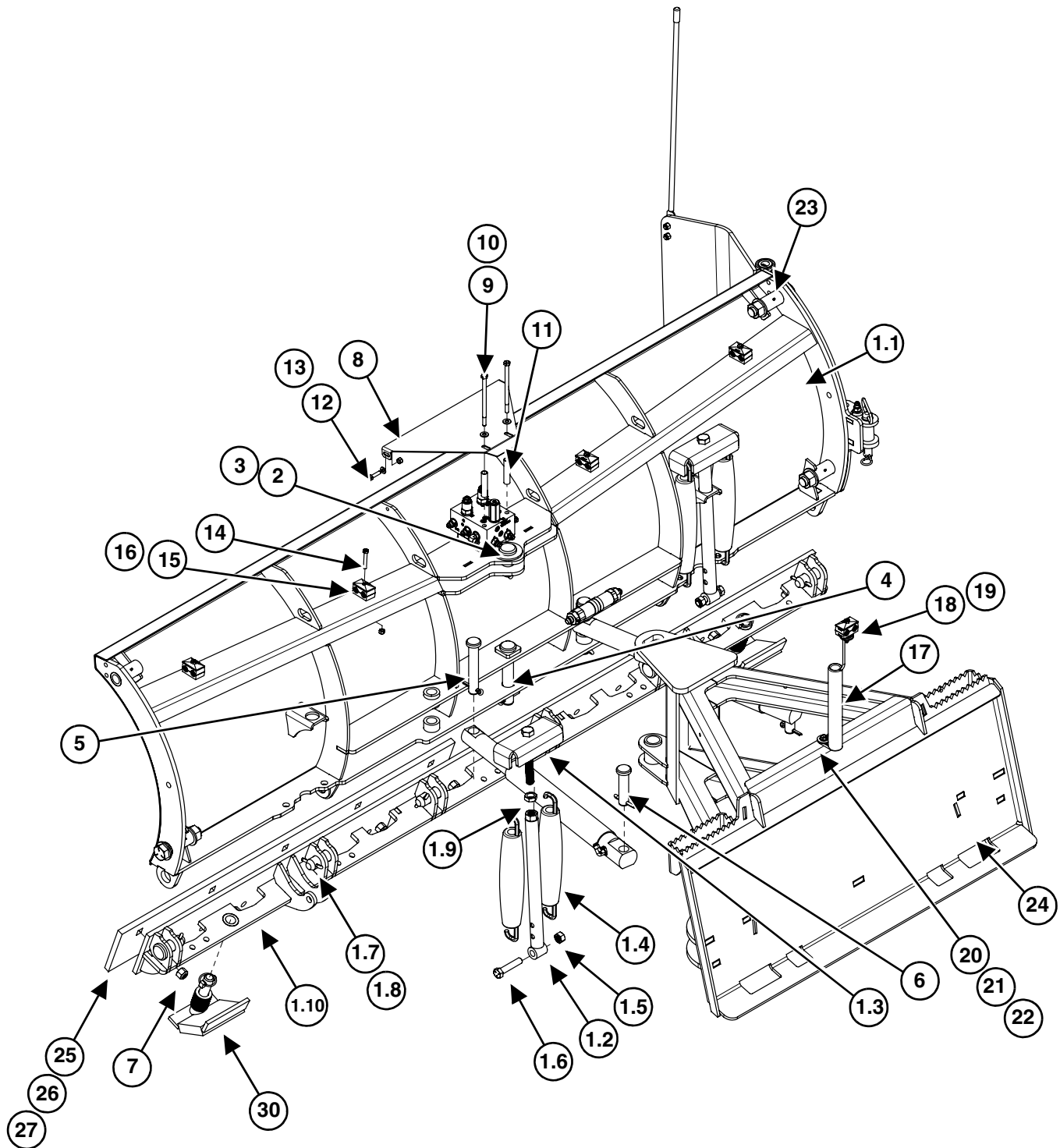
## Parts



| ITEM | PART #   | DESCRIPTION                                    | QP-102<br>QTY | QP-114<br>QTY | QP-126<br>QTY | QP-138<br>QTY |
|------|----------|------------------------------------------------|---------------|---------------|---------------|---------------|
| 1    | P40084   | BLADE ASSEMBLY, QP-102                         | 1             | 0             | 0             | 0             |
|      | P40096   | BLADE ASSEMBLY, QP-114                         | 0             | 1             | 0             | 0             |
|      | P40108   | BLADE ASSEMBLY, QP-126                         | 0             | 0             | 1             | 0             |
|      | P40120   | BLADE ASSEMBLY, QP-138                         | 0             | 0             | 0             | 1             |
| 1.1  | P40015   | BLADE WELDMENT ONLY, (NO SPRINGS OR TRIP EDGE) | 1             | 0             | 0             | 0             |
|      | P40016   | BLADE WELDMENT ONLY, (NO SPRINGS OR TRIP EDGE) | 0             | 1             | 0             | 0             |
|      | P40017   | BLADE WELDMENT ONLY, (NO SPRINGS OR TRIP EDGE) | 0             | 0             | 1             | 0             |
|      | P40018   | BLADE WELDMENT ONLY, (NO SPRINGS OR TRIP EDGE) | 0             | 0             | 0             | 1             |
| 1.2  | P40026   | SPRING ADJUSTMENT ROD ASM                      | 2             | 2             | 2             | 2             |
| 1.3  | P40009-B | SPRING ADJUSTMENT ASM                          | 2             | 2             | 2             | 2             |
| 1.4  | P40010B  | SPRING, TRIP, 6'-10' NEW STYLE                 | 4             | 4             | 4             | 4             |
| 1.5  | P40012   | NUT, LOCK, 5/8-11, ZINC, GR C                  | 2             | 2             | 2             | 2             |
| 1.6  | P40013   | BOLT, HEX, 5/8-11 x 3, YELLOW ZINC, GRAD       | 2             | 2             | 2             | 2             |
| 1.7  | P40006   | PIN, UPPER PIVOT/TRIP EDGE 1-3/16" x 3"        | 6             | 6             | 6             | 8             |
| 1.8  | P40007   | PIN, COTTER, 1/4" x 2", ZINC                   | 6             | 6             | 6             | 8             |
| 1.9  | P60242   | NUT, JAM, 3/4-10, ZINC                         | 2             | 2             | 2             | 2             |
| 1.10 | P40002-L | TRIP EDGE WELDMENT 7FT                         | 1             | 0             | 0             | 0             |
|      | P40002-M | TRIP EDGE WELDMENT 8FT                         | 0             | 1             | 0             | 0             |
|      | P40002-N | TRIP EDGE WELDMENT 9FT                         | 0             | 0             | 1             | 0             |
|      | P40002-O | TRIP EDGE WELDMENT 10FT                        | 0             | 0             | 0             | 1             |
| 2    | P40006   | PIN, UPPER PIVOT/TRIP EDGE 1-3/16" x 3"        | 1             | 1             | 1             | 1             |
| 3    | P40007   | PIN, COTTER, 1/4" x 2", ZINC                   | 1             | 1             | 1             | 1             |
| 4    | P50003   | PIN, LOWER PIVOT 1-1/8" x 6-3/4"               | 1             | 1             | 1             | 1             |
| 5    | P50004   | PIN, RAM ANCHOR (BLADE END) 1" x 6"            | 2             | 2             | 2             | 2             |
| 6    | P50005   | PIN, RAM ANCHOR (FRAME END) 1" x 4"            | 2             | 2             | 2             | 2             |
| 7    | P60030   | NUT, HEX, NYLOCK, 5/8-11, ZINC                 | 9             | 10            | 12            | 12            |
| 8    | P60071   | MANIFOLD SHROUD                                | 1             | 1             | 1             | 1             |
| 9    | P60087   | BOLT, HEX, 3/8" x 6"                           | 2             | 2             | 2             | 2             |
| 10   | P60088   | WASHER, FLAT, 3/8" SAE, ZINC                   | 3             | 3             | 3             | 3             |
| 11   | P60089   | MANIFOLD SHROUD BOLT SPACER                    | 2             | 2             | 2             | 2             |
| 12   | P60092   | WASHER, FLAT, 5/16" SAE                        | 3             | 3             | 3             | 3             |

# Models QP102, QP114, QP126, QP138 (Cont'd)

## Parts (Cont'd)



| ITEM | PART # | DESCRIPTION                                  | QP-102<br>QTY | QP-114<br>QTY | QP-126<br>QTY | QP-138<br>QTY |
|------|--------|----------------------------------------------|---------------|---------------|---------------|---------------|
| 13   | P60214 | BOLT, HEX, 5/16-18 x 1-1/4", ZINC, GR 5      | 2             | 2             | 2             | 2             |
| 14   | P60215 | BOLT, CARRIAGE, 5/16 x 2" ZINC, GR 5         | 4             | 4             | 4             | 5             |
| 15   | P60159 | HOSE CLAMP                                   | 5             | 5             | 5             | 7             |
| 16   | P60160 | PLATE, HOSE CLAMP                            | 5             | 5             | 5             | 7             |
| 17   | P60084 | SPRING, HOSE HOLDER                          | 1             | 1             | 1             | 1             |
| 18   | P60090 | NUT, HEX, NYLOCK, 5/16"-18                   | 7             | 7             | 7             | 7             |
| 19   | P60094 | BOLT, HEX, 5/16-18 x 2-1/2 ZINC PLATED, GR 5 | 1             | 1             | 1             | 1             |
| 20   | P60209 | WASHER, FLAT, 1/2" USS, ZINC                 | 3             | 3             | 3             | 3             |
| 21   | P60210 | BOLT, HEX, 3/8" x 1-1/4"                     | 1             | 1             | 1             | 1             |
| 22   | P60211 | NUT, HEX, NYLOCK, 3/8", GR 8                 | 3             | 3             | 3             | 3             |
| 23   | P25562 | GREASE ZERK, 3/16" POUND IN                  | 4             | 4             | 4             | 4             |

For Items above 23: See "Options (QP Models)" on page 44.

For hydraulic hoses: See "Hydraulic Hoses (QP Models)" on page 48.

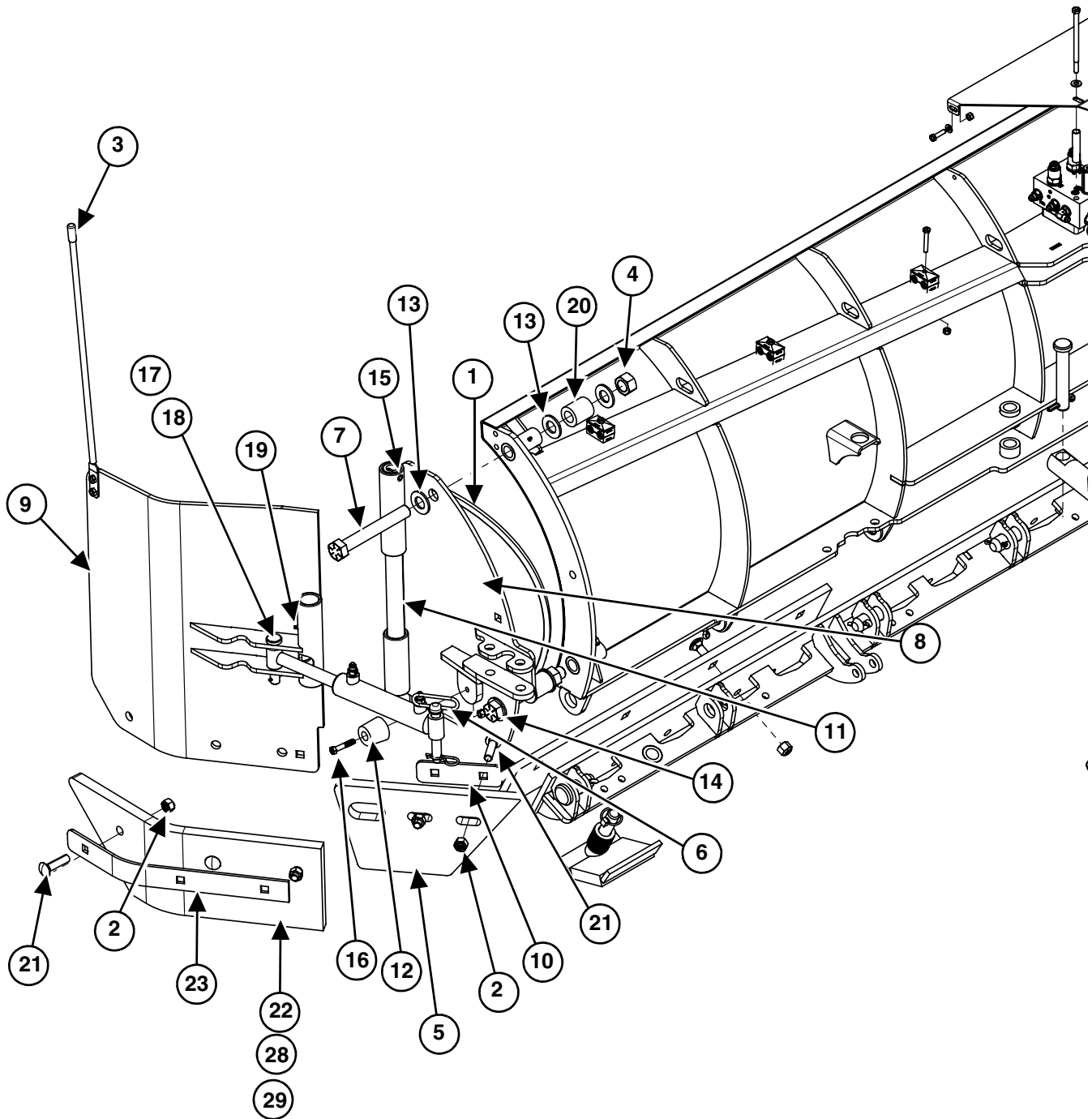
For hydraulic components: See "Hydraulic Components (QP Models)" on page 49.

## Options (QP Models)

| ITEM | PART #                                                | DESCRIPTION                                                                 | QP-102<br>QTY | QP-114<br>QTY | QP-126<br>QTY | QP-138<br>QTY |
|------|-------------------------------------------------------|-----------------------------------------------------------------------------|---------------|---------------|---------------|---------------|
|      | <b>FRAME (OPTION)</b>                                 |                                                                             |               |               |               |               |
| 24   | P50020                                                | FLEX FRAME, ASSY, SEE PAGE 81                                               | 1             | 1             | 1             | 1             |
|      | P50031                                                | THREE-POINT FRAME                                                           | 1             | 1             | 1             | 1             |
|      | P60000-1                                              | A-FRAME                                                                     | 1             | 1             | 1             | 1             |
|      | <b>MAIN EDGE - (See Trip Edges on page 50)</b>        |                                                                             |               |               |               |               |
|      | <b>Steel Options</b>                                  |                                                                             |               |               |               |               |
| 25   | P50011-C                                              | CENTER PUNCH CUTTING EDGE KIT, 7', WITH HARDWARE (GEN 1, 2 OR 3 TRIP EDGE)  | 1             | 0             | 0             | 0             |
|      | P50011-E                                              | CENTER PUNCH CUTTING EDGE KIT, 8', WITH HARDWARE (GEN 1, 2 OR 3 TRIP EDGE)  | 0             | 1             | 0             | 0             |
|      | P50011-G                                              | CENTER PUNCH CUTTING EDGE KIT, 9', WITH HARDWARE (GEN 1, 2 OR 3 TRIP EDGE)  | 0             | 0             | 1             | 0             |
|      | P50011-H                                              | CENTER PUNCH CUTTING EDGE KIT, 10', WITH HARDWARE (GEN 1, 2 OR 3 TRIP EDGE) | 0             | 0             | 0             | 1             |
| 26   | P50011-L                                              | TOP PUNCH CUTTING EDGE KIT, 7', WITH HARDWARE (GEN 4 OR 5 TRIP EDGE)        | 1             | 0             | 0             | 0             |
|      | P50011-M                                              | TOP PUNCH CUTTING EDGE KIT, 8', WITH HARDWARE (GEN 4 OR 5 TRIP EDGE)        | 0             | 1             | 0             | 0             |
|      | P50011-N                                              | TOP PUNCH CUTTING EDGE KIT, 9', WITH HARDWARE (GEN 4 OR 5 TRIP EDGE)        | 0             | 0             | 1             | 0             |
|      | P50011-O                                              | TOP PUNCH CUTTING EDGE KIT, 10', WITH HARDWARE (GEN 4 OR 5 TRIP EDGE)       | 0             | 0             | 0             | 1             |
|      | <b>SoftTouch Options - (Works with any Trip Edge)</b> |                                                                             |               |               |               |               |
| 27   | P50012-C1                                             | 7' SOFTTOUCH CUTTING EDGE KIT WITH HARDWARE                                 | 1             | 0             | 0             | 0             |
|      | P50012-E1                                             | 8' SOFTTOUCH CUTTING EDGE KIT WITH HARDWARE                                 | 0             | 1             | 0             | 0             |
|      | P50012-G1                                             | 9' SOFTTOUCH CUTTING EDGE KIT WITH HARDWARE                                 | 0             | 0             | 1             | 0             |
|      | P50012-H1                                             | 10' SOFTTOUCH CUTTING EDGE KIT WITH HARDWARE                                | 0             | 0             | 0             | 1             |
|      | <b>ACTIVE EDGE</b>                                    |                                                                             |               |               |               |               |
| NS   | P50011-L-REK                                          | 7' ACTIVE EDGE CUTTING KIT WITH HARDWARE, SEE PAGE 79                       | 1             | 0             | 0             | 0             |
| NS   | P50011-M-REK                                          | 8' ACTIVE EDGE CUTTING KIT WITH HARDWARE, SEE PAGE 80                       | 0             | 1             | 0             | 0             |
| NS   | P50011-N-REK                                          | 9' ACTIVE EDGE CUTTING KIT WITH HARDWARE, SEE PAGE 79                       | 0             | 0             | 1             | 0             |
| NS   | P50011-O-REK                                          | 10' ACTIVE EDGE CUTTING KIT WITH HARDWARE, SEE PAGE 80                      | 0             | 0             | 0             | 1             |

| ITEM | PART #                                            | DESCRIPTION                                        | QP-102<br>QTY | QP-114<br>QTY | QP-126<br>QTY | QP-138<br>QTY |
|------|---------------------------------------------------|----------------------------------------------------|---------------|---------------|---------------|---------------|
|      | <b>POLY WING EDGE KIT (P60050 - KIT)</b>          |                                                    |               |               |               |               |
| 28   | P40012                                            | NUT, LOCK, 5/8-11, ZINC, GR C                      | 2             | 2             | 2             | 2             |
|      | P60008                                            | BOLT, CARRIAGE, 5/8-11 x 2-1/2"                    | 2             | 2             | 2             | 2             |
|      | P60051                                            | URETHANE CUTTING EDGE                              | 2             | 2             | 2             | 2             |
|      | P60101                                            | HOLD DOWN STRIP, OUTSIDE URETHANE EDGE             | 2             | 2             | 2             | 2             |
|      | P60052                                            | CUTTING EDGE, URETHANE, REAR LEFT OR RIGHT         | 2             | 2             | 2             | 2             |
|      | P60100                                            | HOLD DOWN STRIP, INSIDE URETHANE EDGE              | 2             | 2             | 2             | 2             |
|      | <b>STEEL WING EDGE KIT (P60023 - KIT)</b>         |                                                    |               |               |               |               |
| 29   | P20028                                            | NUT, LOCK, 3/4-10, GR C                            | 6             | 6             | 6             | 6             |
|      | P30051                                            | WASHER, FLAT, 3/4 SAE                              | 6             | 6             | 6             | 6             |
|      | P60013                                            | WING EDGE, STEEL, LEFT SIDE                        | 1             | 1             | 1             | 1             |
|      | P60014                                            | WING EDGE, STEEL, RIGHT SIDE                       | 1             | 1             | 1             | 1             |
|      | P60015                                            | WASHER, CUSTOM, 2.25", STEEL EDGE                  | 6             | 6             | 6             | 6             |
|      | P60016                                            | BUSHING, 1.25" x .90", STEEL EDGE                  | 6             | 6             | 6             | 6             |
|      | P60095                                            | WASHER, FLAT 3/4" USS                              | 6             | 6             | 6             | 6             |
|      | P80039                                            | BOLT, HEX, 3/4-10 x 2-1/2", GR 8                   | 6             | 6             | 6             | 6             |
|      | P60052                                            | CUTTING EDGE, URETHANE, REAR LEFT OR RIGHT         | 2             | 2             | 2             | 2             |
|      | P60100                                            | HOLD DOWN STRIP, INSIDE URETHANE EDGE              | 2             | 2             | 2             | 2             |
|      | <b>WEAR SHOES (P40003-K - KIT)</b>                |                                                    |               |               |               |               |
| 30   | P40003                                            | WELDMENT, WEAR SHOE, W/ SPACERS & KLIK PINS        | 2             | 2             | 2             | 2             |
|      | <b>POWER WING MANIFOLD (OPTION) (See page 76)</b> |                                                    |               |               |               |               |
| NS   | QP-PW                                             | POWERWING MANIFOLD WITH FITTINGS AND DIODE HARNESS | 1             | 1             | 1             | 1             |
|      | <b>AUTOWING MANIFOLD (OPTION) (See page 75)</b>   |                                                    |               |               |               |               |
| NS   | P60068-K                                          | AUTOWING MANIFOLD WITH FITTINGS                    | 1             | 1             | 1             | 1             |
|      | <b>SPILL GUARD (OPTION)</b>                       |                                                    |               |               |               |               |
| NS   | P60245                                            | SPILL GUARD 7'                                     | 1             | 0             | 0             | 0             |
| NS   | P60246                                            | SPILL GUARD 8'                                     | 0             | 1             | 0             | 0             |
| NS   | P60247                                            | SPILL GUARD 9'                                     | 0             | 0             | 1             | 0             |
| NS   | P60248                                            | SPILL GUARD 10'                                    | 0             | 0             | 0             | 1             |

## Side Wing (QP Models)





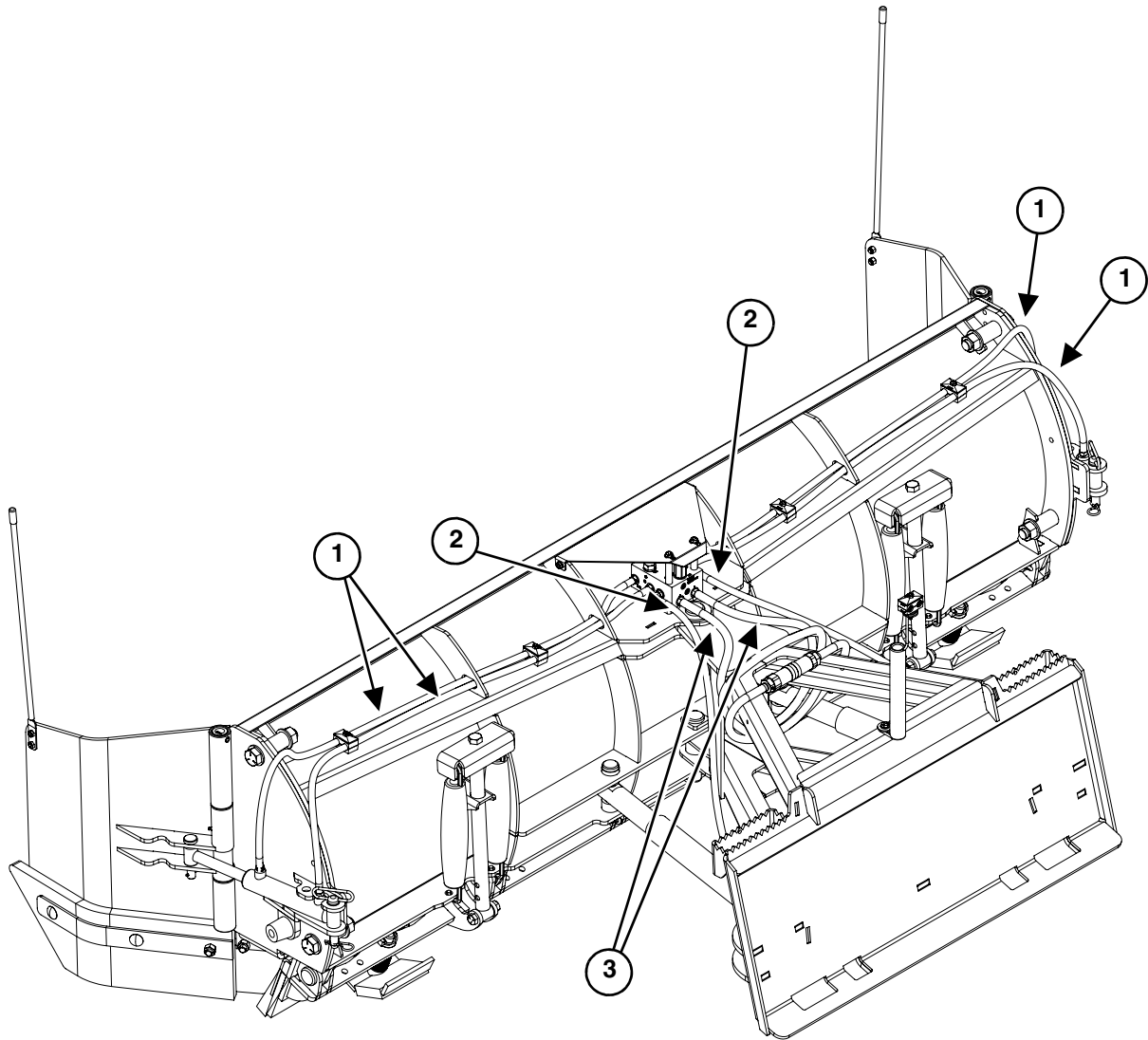
| ITEM | PART # | DESCRIPTION                                           | QTY |
|------|--------|-------------------------------------------------------|-----|
| 1    | P38221 | RUBBER-LOK TRIM 1/4"                                  | 2   |
| *2   | P40012 | NUT, LOCK, 5/8-11, ZINC, GR C                         | 10  |
| 3    | P50001 | BLADE MARKER GUIDE SET                                | 2   |
| 4    | P60024 | NUT, LOCK, 1-8, ZINC, GR C                            | 4   |
| *5   | P60052 | CUTTING EDGE, URETHANE, REAR LEFT OR RIGHT            | 2   |
| 6    | P60057 | PIN, WING CYLINDER D HANDLE (HITCH PIN), W/QUICK CLIP | 2   |
| 7    | P20041 | PIVOT BOLT, HEX, 1" - 8 x 7.5"                        | 2   |
| 8    | P60097 | LH WING REAR WELDMENT                                 | 1   |
| 9    | P60098 | LH WING FRONT WELDMENT                                | 1   |
| NS   | P60061 | RH WING REAR WELDMENT (NOT SHOWN)                     | 1   |
| NS   | P60062 | RH WING FRONT WELDMENT (NOT SHOWN)                    | 1   |
| *10  | P60100 | HOLD DOWN STRIP, INSIDE URETHANE EDGE                 | 2   |
| 11   | P60102 | PIN, HINGE                                            | 2   |
| 12   | P60158 | WING BUMP STOP, 2"W x 1-3/4"H, 3/8" BOLT DIA          | 2   |
| 13   | P60206 | WASHER, FLAT, 1" SAE, YELLOW ZINC, GR 8               | 12  |
| 14   | P60211 | NUT, HEX, NYLOCK, 3/8", YELLOW ZINC, GR 8             | 3   |
| 15   | P60227 | PIN, ROLL, 1/2 x 2"                                   | 2   |
| 16   | P60235 | BOLT, HEX, 3/8" x 2", YELLOW ZINC, GR 8               | 2   |
| 17   | P20029 | PIN, 3/4" x 4"                                        | 2   |
| 18   | P60230 | PIN, COTTER, 5/32" x 1-1/4"                           | 2   |
| 19   | P25562 | GREASE ZERK, 3/16" POUND IN                           | 2   |
| 20   | P60205 | SPACER, URETHANE                                      | 4   |
| *21  | P60008 | BOLT, CARRIAGE, 5/8-11 x 2-1/2"                       | 10  |
| *22  | P60051 | URETHANE CUTTING EDGE                                 | 2   |
| *23  | P60101 | HOLD DOWN STRIP, OUTSIDE URETHANE EDGE                | 2   |

For items above 23: See "Options" on page 45.

\* Items included in kit on page 45.

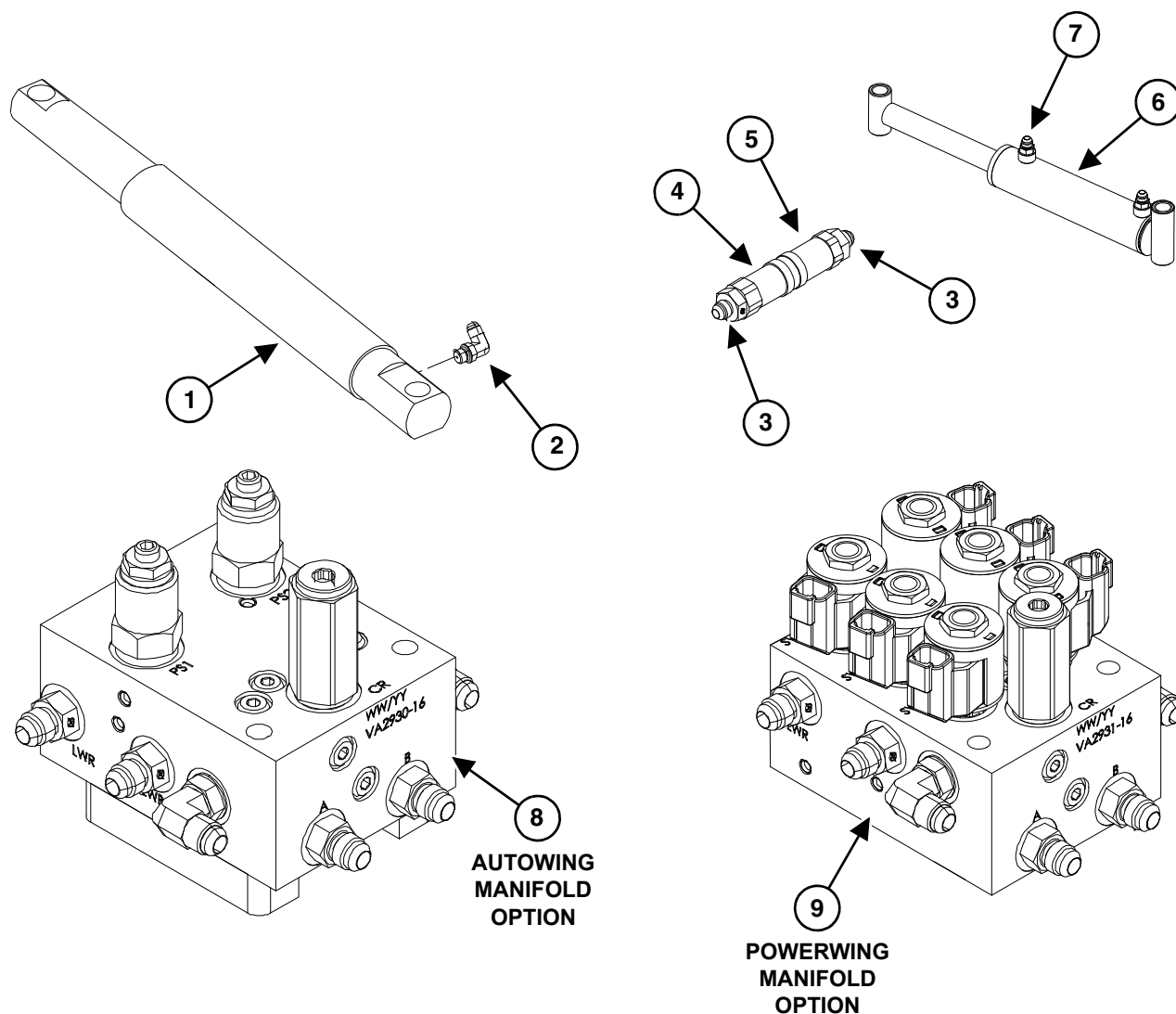
# Hydraulics QP102, QP114, QP126, QP138

## Hydraulic Hoses (QP Models)



| ITEM | PART # | DESCRIPTION                             | QP-102<br>QTY | QP-114<br>QTY | QP-126<br>QTY | QP-138<br>QTY |
|------|--------|-----------------------------------------|---------------|---------------|---------------|---------------|
| 1    | P60072 | HOSE, 3/8" x 58", 3000 PSI, 6FJIC-6FJIC | 4             | -             | -             | -             |
|      | P60074 | HOSE, 3/8" x 60", 3000 PSI, 6FJIC-6FJIC | -             | 4             | -             | -             |
|      | P60076 | HOSE, 3/8" x 66", 3000 PSI, 6FJIC-6FJIC | -             | -             | 4             | -             |
|      | P60078 | HOSE, 3/8" x 72", 3000 PSI, 6FJIC-6FJIC | -             | -             | -             | 4             |
| 2    | P60082 | HOSE, 3/8" x 38", 3000 PSI, 6FJIC-6FJIC | 2             | 2             | 2             | 2             |
| 3    | P50008 | HOSE, 3/8" x 78", 3000 PSI, 6FJIC-8FJIC | 2             | 2             | 2             | 2             |

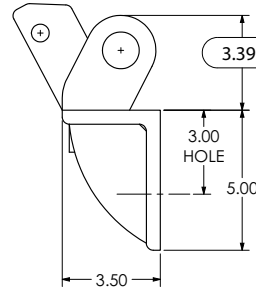
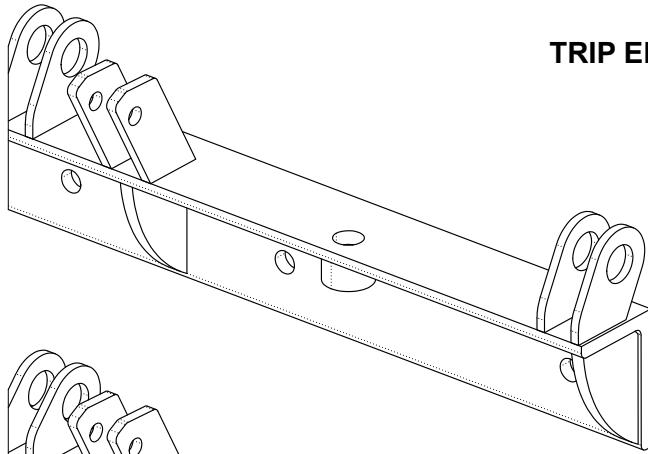
## Hydraulic Components (QP Models)



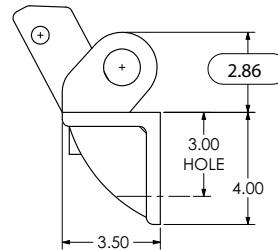
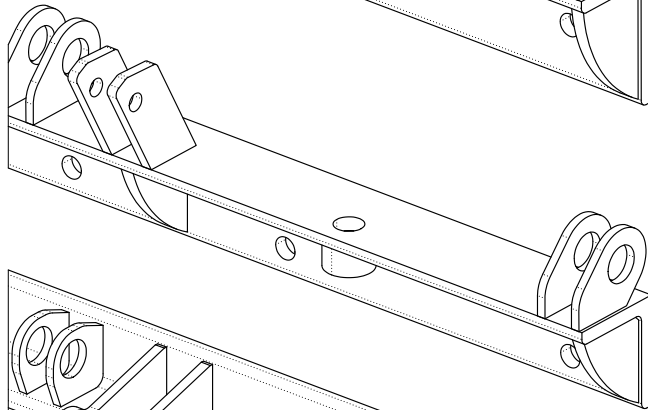
| ITEM | PART #   | DESCRIPTION                                                  | QTY |
|------|----------|--------------------------------------------------------------|-----|
| 1    | P50006-B | ANGLE CYLINDER, NITRO STEEL 2" ROD                           | 2   |
| 2    | P60085   | FITTING, ELBOW, 6MJIC - 6MORB (6801R-06-06-.07)              | 2   |
| 3    | P50009-A | FITTING, #8 MJIC X #12 MORB                                  | 2   |
| 4    | P50010M  | COUPLER, 1/2" MALE FLAT FACE 1/2" BODY x 3/4" SAE PORT       | 1   |
| 5    | P50010F  | COUPLER, 1/2" FEMALE FLAT FACE 1/2" BODY x 3/4" SAE PORT     | 1   |
| 6    | P60055   | WING CYLINDER, DUAL ACTING, LEFT & RIGHT, NITRO ROD          | 2   |
| 7    | P60069   | FITTING, #6MORB-#6MJIC, STRAIGHT                             | 4   |
| 8    | P60068-K | MANIFOLD, AUTOWING W/VALVES (with Fittings) See page 75      | 1   |
| 9    | P60093   | POWERWING MANIFOLD WITH FITTINGS & DIODE HARNESS See page 76 | 1   |

## Trip Edge Generations (QP Models)

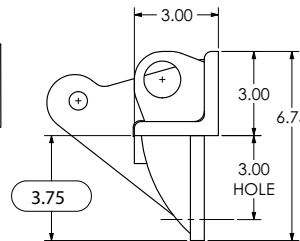
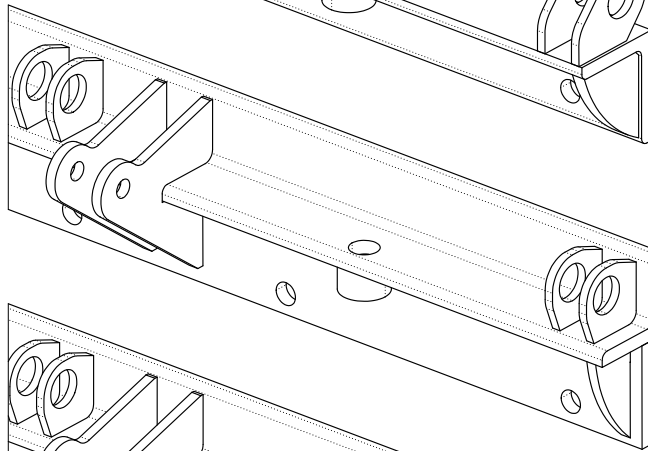
### TRIP EDGE MODEL IDENTIFYING DIMENSION



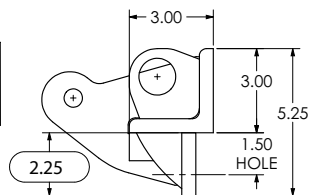
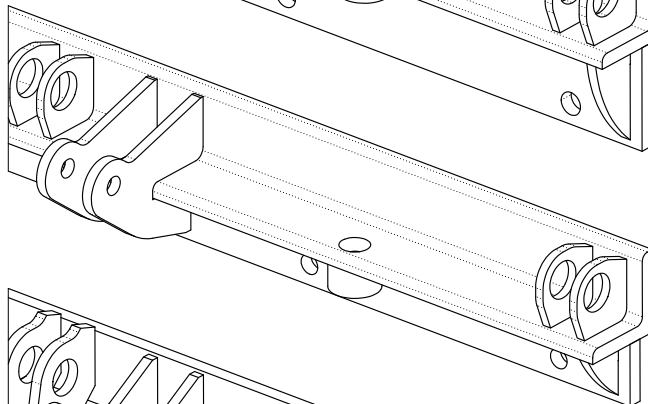
"3.39" EAR"  
GENERATION 1



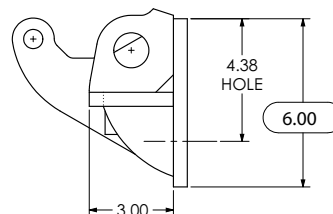
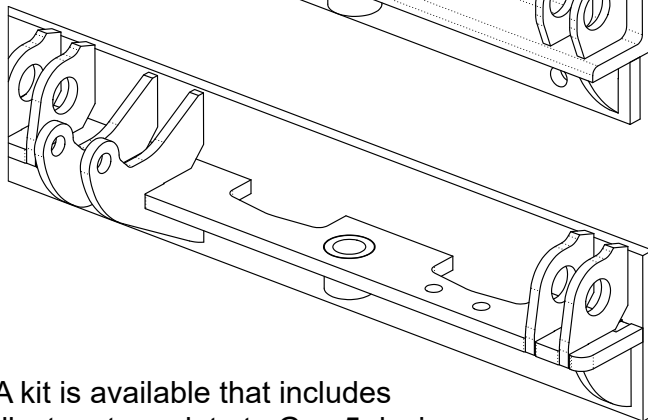
"2.86" EAR"  
GENERATION 2



"CENTER PUNCH"  
\*GENERATION 3



"TOP PUNCH"  
\*GENERATION 4



"CURRENT"  
GENERATION 5

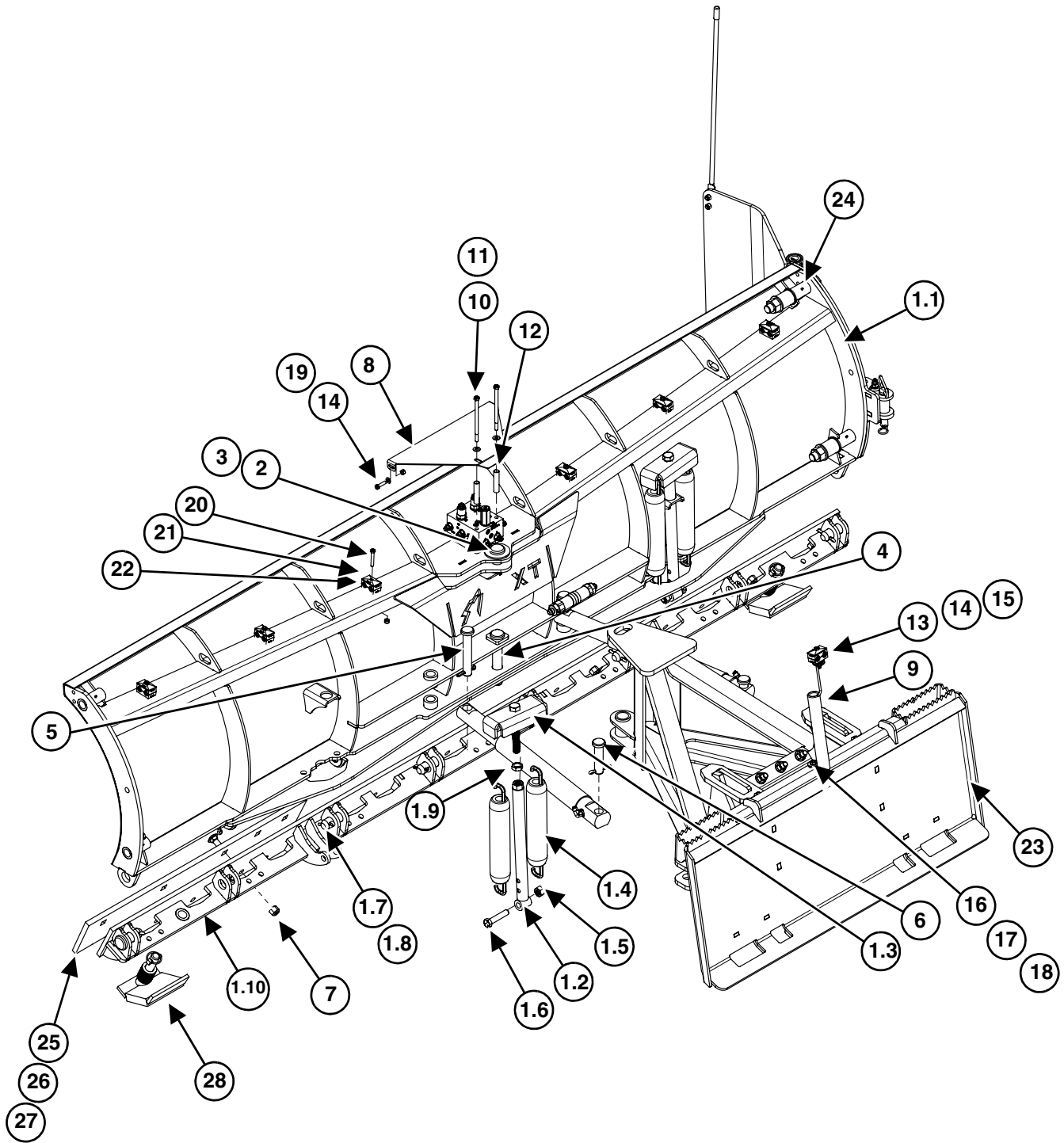
\* A kit is available that includes adjusters to update to Gen 5 design.

## Decal Identification (QP Models)

| PART # | DESCRIPTION                      | QP-102<br>QTY | QP-114<br>QTY | QP-126<br>QTY | QP-138<br>QTY |
|--------|----------------------------------|---------------|---------------|---------------|---------------|
| DC37   | DECAL, QUATTROPLOW, QP-102       | 2             | 0             | 0             | 0             |
| DC38   | DECAL, QUATTROPLOW, QP-114       | 0             | 2             | 0             | 0             |
| DC39   | DECAL, QUATTROPLOW, QP-126       | 0             | 0             | 2             | 0             |
| DC40   | DECAL, QUATTROPLOW, QP-138       | 0             | 0             | 0             | 2             |
| DC28   | DECAL, SNOWWOLF, MOLDBOARD LEFT  | 1             | 1             | 1             | 1             |
| DC29   | DECAL, WOLFHEAD, MOLDBOARD RIGHT | 1             | 1             | 1             | 1             |
| DC36   | DECAL, WOLFHEAD, LEFT SIDEPLATE  | 1             | 1             | 1             | 1             |
| DC58   | DECAL, "PATENTS PENDING" WHITE   | 1             | 1             | 1             | 1             |
| DC68   | DECAL, TAG US, BLACK W/YELLOW    | 1             | 1             | 1             | 1             |
| P20019 | DECAL, "DANGER PINCH AREA"       | 4             | 4             | 4             | 4             |
| SWSN   | DECAL, SERIAL #                  | 1             | 1             | 1             | 1             |

# Models QPXT126, QPXT138, QPXT150

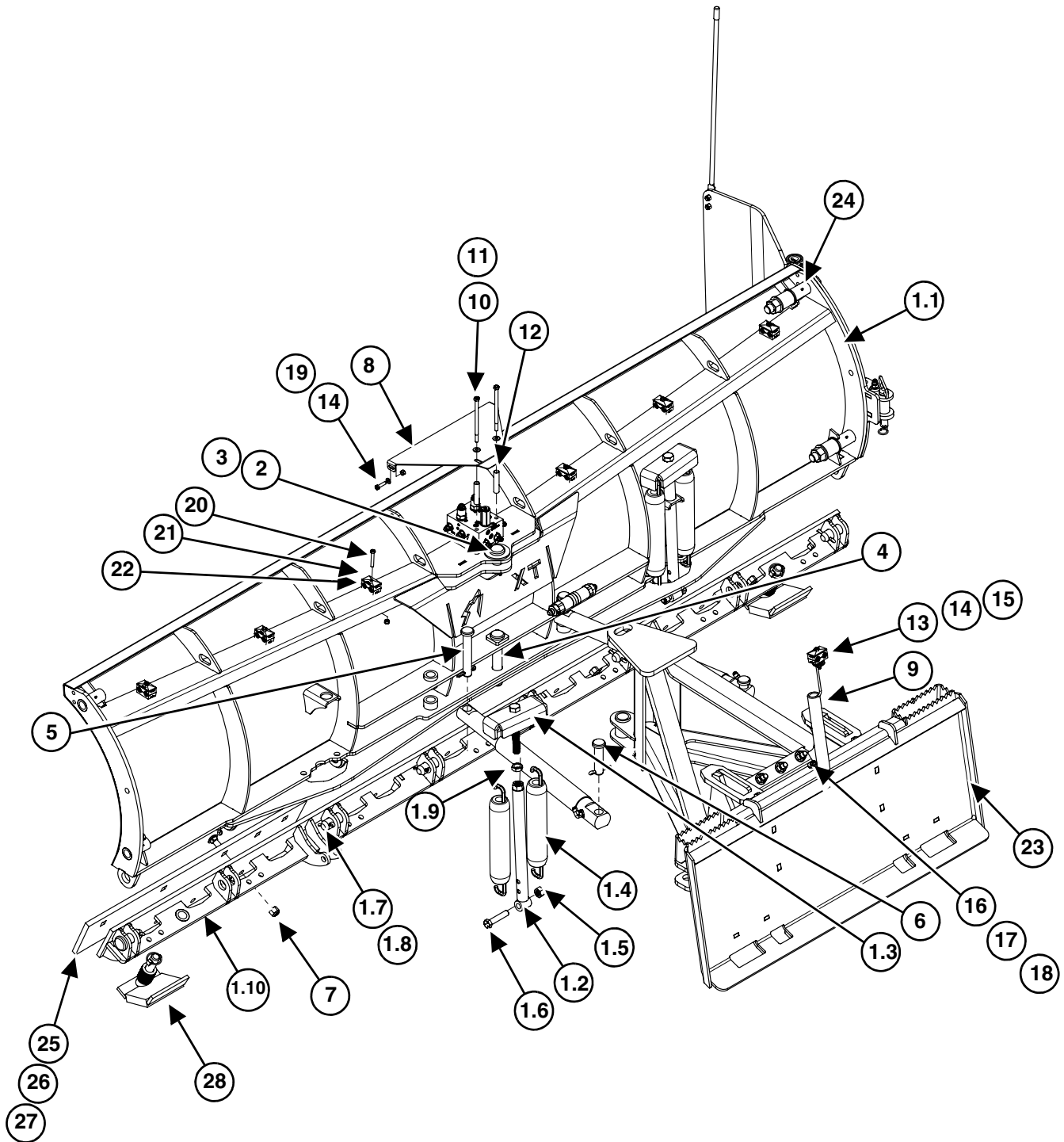
## Parts



| ITEM | PART #   | DESCRIPTION                                    | QPXT-126<br>QTY | QPXT-138<br>QTY | QPXT-150<br>QTY |
|------|----------|------------------------------------------------|-----------------|-----------------|-----------------|
| 1    | P40108XT | BLADE ASSEMBLY, QPXT-126                       | 1               | 0               | 0               |
|      | P40120XT | BLADE ASSEMBLY, QPXT-138                       | 0               | 1               | 0               |
|      | P40132XT | BLADE ASSEMBLY, QPXT-150                       | 0               | 0               | 1               |
| 1.1  | P40017XT | BLADE WELDMENT ONLY, (NO SPRINGS OR TRIP EDGE) | 1               | 0               | 0               |
|      | P40018XT | BLADE WELDMENT ONLY, (NO SPRINGS OR TRIP EDGE) | 0               | 1               | 0               |
|      | P40019XT | BLADE WELDMENT ONLY, (NO SPRINGS OR TRIP EDGE) | 0               | 0               | 1               |
| 1.2  | P40026   | SPRING ADJUSTMENT ROD ASM                      | 2               | 2               | 2               |
| 1.3  | P40009-B | SPRING ADJUSTMENT ASM                          | 2               | 2               | 2               |
| 1.4  | P40010B  | SPRING, TRIP, 6'-10' NEW STYLE                 | 4               | 4               | 4               |
| 1.5  | P40012   | NUT, LOCK, 5/8-11, ZINC, GR C                  | 2               | 2               | 2               |
| 1.6  | P40013   | BOLT, HEX, 5/8-11 x 3, YELLOW ZINC, GRAD       | 2               | 2               | 2               |
| 1.7  | P40006   | PIN, UPPER PIVOT/TRIP EDGE 1-3/16" x 3"        | 6               | 8               | 8               |
| 1.8  | P40007   | PIN, COTTER, 1/4" x 2", ZINC                   | 6               | 8               | 8               |
| 1.9  | P60242   | NUT, JAM, 3/4-10, ZINC                         | 2               | 2               | 2               |
| 1.10 | P40002-N | TRIP EDGE WELDMENT 9FT                         | 1               | 0               | 0               |
|      | P40002-O | TRIP EDGE WELDMENT 10FT                        | 0               | 1               | 0               |
|      | P40002-P | TRIP EDGE WELDMENT 11FT                        | 0               | 0               | 1               |
| 2    | P40006   | PIN, UPPER PIVOT/TRIP EDGE 1-3/16" x 3"        | 1               | 1               | 1               |
| 3    | P40007   | PIN, COTTER, 1/4" x 2", ZINC                   | 1               | 1               | 1               |
| 4    | P50003   | PIN, LOWER PIVOT 1-1/8" x 6-3/4"               | 1               | 1               | 1               |
| 5    | P50004   | PIN, RAM ANCHOR (BLADE END) 1" x 6"            | 2               | 2               | 2               |
| 6    | P50005   | PIN, RAM ANCHOR (FRAME END) 1" x 4"            | 2               | 2               | 2               |
| 7    | P60030   | NUT, HEX, NYLOCK, 5/8-11, ZINC                 | 12              | 13              | 0               |
| 8    | P60071   | MANIFOLD SHROUD                                | 1               | 1               | 1               |
| 9    | P60084   | SPRING, HOSE HOLDER                            | 1               | 1               | 1               |
| 10   | P60087   | BOLT, HEX, 3/8" x 6"                           | 2               | 2               | 2               |
| 11   | P60088   | WASHER, FLAT, 3/8" SAE, ZINC                   | 3               | 3               | 3               |

# Models QPXT126, QP1XT138, QPXT150 (Cont'd)

## Parts (Cont'd)





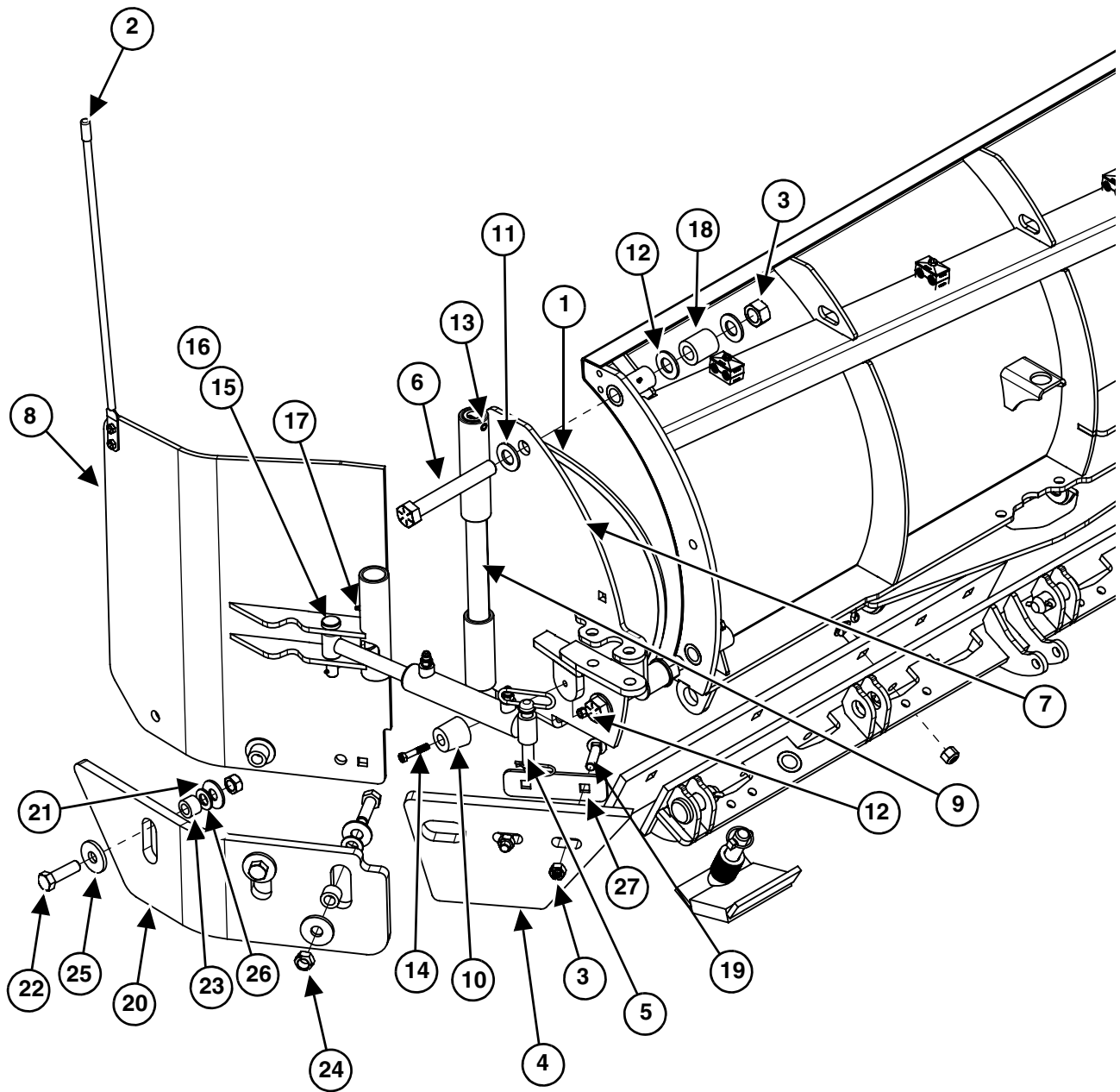
| ITEM                                                                           | PART # | DESCRIPTION                                  | QPXT-126<br>QTY | QP-XT-138<br>QTY | QPXT-150<br>QTY |
|--------------------------------------------------------------------------------|--------|----------------------------------------------|-----------------|------------------|-----------------|
| 12                                                                             | P60089 | MANIFOLD SHROUD BOLT SPACER                  | 2               | 2                | 2               |
| 13                                                                             | P60090 | NUT, HEX, NYLOCK, 5/16"-18                   | 7               | 9                | 9               |
| 14                                                                             | P60092 | WASHER, FLAT, 5/16" SAE                      | 3               | 3                | 3               |
| 15                                                                             | P60094 | BOLT, HEX, 5/16-18 x 2-1/2 ZINC PLATED, GR 5 | 1               | 1                | 1               |
| 16                                                                             | P60209 | WASHER, FLAT, 1/2" USS, ZINC                 | 3               | 3                | 3               |
| 17                                                                             | P60210 | BOLT, HEX, 3/8" x 1-1/4"                     | 1               | 1                | 1               |
| 18                                                                             | P60211 | NUT, HEX, NYLOCK, 3/8", GR 8                 | 1               | 1                | 1               |
| 19                                                                             | P60214 | BOLT, HEX, 5/16-18 x 1-1/4", ZINC, GR 5      | 2               | 2                | 2               |
| 20                                                                             | P60215 | BOLT, HEX, 5/16 X 2, ZINC GR 5               | 4               | 4                | 6               |
| 21                                                                             | P60159 | HOSE CLAMP                                   | 5               | 7                | 7               |
| 22                                                                             | P60160 | PLATE, HOSE CLAMP                            | 5               | 7                | 7               |
| 23                                                                             | P50020 | FLEX FRAME, ASSEMBLY, SEE PAGE 81            | 1               | 1                | 1               |
| 24                                                                             | P25562 | GREASE ZERK, 3/16" POUND IN                  | 4               | 4                | 4               |
| NS                                                                             | P60247 | SPILL GUARD 9'                               | 1               | 0                | 0               |
| NS                                                                             | P60248 | SPILL GUARD 10'                              | 0               | 1                | 0               |
| NS                                                                             | P60249 | SPILL GUARD 11'                              | 0               | 0                | 1               |
| For items above 24: See "Options (QPXT Models)" on page 56.                    |        |                                              |                 |                  |                 |
| For hydraulic hoses: See "Hydraulic Hoses (QPXT Models)" on page 60.           |        |                                              |                 |                  |                 |
| For hydraulic components: See "Hydraulic Components (QPXT Models)" on page 61. |        |                                              |                 |                  |                 |

## Options (QPXT Models)

| ITEM | PART #                                          | DESCRIPTION                                        | QPXT-126<br>QTY | QPXT-138<br>QTY | QPXT-150<br>QTY |
|------|-------------------------------------------------|----------------------------------------------------|-----------------|-----------------|-----------------|
|      | <b>MAIN EDGE</b>                                |                                                    |                 |                 |                 |
|      | <b>Steel Options</b>                            |                                                    |                 |                 |                 |
| 25   | P50011-N                                        | CUTTING EDGE, KIT, 9'                              | 1               | 0               | 0               |
| 26   | P50011-O                                        | CUTTING EDGE, KIT, 10'                             | 0               | 1               | 0               |
| 27   | P50011-I                                        | CUTTING EDGE, KIT, 11'                             | 0               | 0               | 1               |
|      | <b>ACTIVE EDGE</b>                              |                                                    |                 |                 |                 |
| NS   | P50011-N-REK                                    | 9' ACTIVE EDGE KIT WITH HARDWARE                   | 1               | 0               | 0               |
| NS   | P50011-O-REK                                    | 10' ACTIVE EDGE KIT WITH HARDWARE                  | 0               | 1               | 0               |
| NS   | P50011-I-REK                                    | 11' ACTIVE EDGE KIT WITH HARDWARE                  | 0               | 0               | 1               |
|      | <b>WEAR SHOES</b>                               |                                                    |                 |                 |                 |
|      | P40003-K                                        | KIT                                                |                 |                 |                 |
| 28   | P40003                                          | WELDMENT, WEAR SHOE, W/SPACERS & KLIK PINS         | 2               | 2               | 2               |
|      | <b>POWER WING (OPTION) (See page 76)</b>        |                                                    |                 |                 |                 |
| NS   | QP-PW                                           | POWERWING MANIFOLD WITH FITTINGS AND DIODE HARNESS | 1               | 1               | 1               |
|      | <b>AUTOWING MANIFOLD (OPTION) (See page 75)</b> |                                                    |                 |                 |                 |
| NS   | P60068                                          | AUTOWING MANIFOLD WITH FITTINGS                    | 1               | 1               | 1               |

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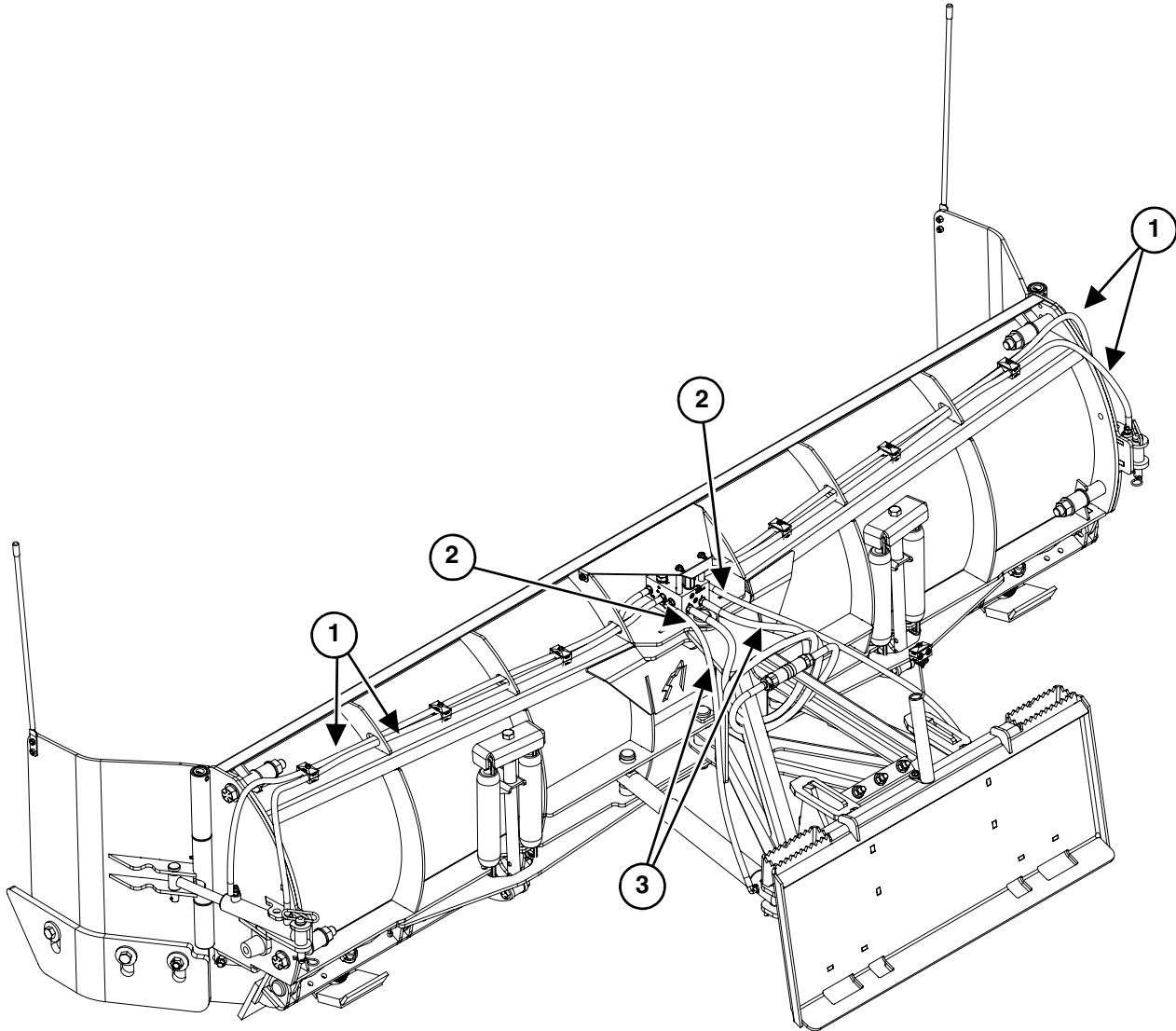
## Side Wing (QPXT Models)



| ITEM | PART # | DESCRIPTION                                           | QTY |
|------|--------|-------------------------------------------------------|-----|
| 1    | P38221 | RUBBER-LOK TRIM 1/4"                                  | 2   |
| 2    | P50001 | BLADE MARKER GUIDE SET                                | 2   |
| 3    | P60024 | NUT, LOCK, 1-8, ZINC, GR C                            | 4   |
| 4    | P60052 | CUTTING EDGE, URETHANE, REAR LEFT OR RIGHT            | 2   |
| 5    | P60057 | PIN, WING CYLINDER D HANDLE (HITCH PIN), W/QUICK CLIP | 2   |
| 6    | P20041 | PIVOT BOLT, HEX, 1"- 8 x 7.5"                         | 2   |
| 7    | P60097 | LH WING REAR WELDMENT                                 | 1   |
| 8    | P60098 | LH WING FRONT WELDMENT                                | 1   |
| NS   | P60061 | RH WING REAR WELDMENT (NOT SHOWN)                     | 1   |
| NS   | P60062 | RH WING FRONT WELDMENT (NOT SHOWN)                    | 1   |
| 9    | P60102 | PIN, HINGE                                            | 2   |
| 10   | P60158 | WING BUMP STOP, 2"W x 1-3/4"H, 3/8" BOLT DIA          | 2   |
| 11   | P60206 | WASHER, FLAT, 1" SAE, YELLOW ZINC, GR 8               | 12  |
| 12   | P60211 | NUT, HEX, NYLOCK, 3/8", YELLOW ZINC, GR 8             | 3   |
| 13   | P60227 | PIN, ROLL, 1/2 x 2"                                   | 2   |
| 14   | P60235 | BOLT, HEX, 3/8" x 2", YELLOW ZINC, GR 8               | 2   |
| 15   | P20029 | PIN, 3/4" x 4"                                        | 2   |
| 16   | P60230 | PIN, COTTER, 5/32" x 1-1/4"                           | 2   |
| 17   | P25562 | GREASE ZERK, 3/16" POUND IN                           | 2   |
| 18   | P60205 | SPACER, URETHANE                                      | 4   |
| 19   | P60008 | BOLT, CARRIAGE, 5/8-11 x 2-1/2"                       | 4   |
| 20   | P60013 | WING EDGE, STEEL, LEFT SIDE                           | 1   |
| NS   | P60014 | WING EDGE, STEEL, RIGHT SIDE (NOT SHOWN)              | 1   |
| 21   | P60015 | WASHER, CUSTOM, 2.25"                                 | 6   |
| 22   | P80039 | BOLT, HEX, 3/4-10 X 2-1/2, GR8                        | 6   |
| 23   | P60016 | BUSHING, 1.25" x .90"                                 | 6   |
| 24   | P20028 | NUT, LOCK, 3/4-10, GR C                               | 6   |
| 25   | P60095 | WASHER, FLAT 3/4" USS                                 | 6   |
| 26   | P30051 | WASHER, FLAT 3/4" SAE                                 | 6   |
| 27   | P60100 | HOLD DOWN STRIP, INSIDE URETHANE EDGE                 | 2   |

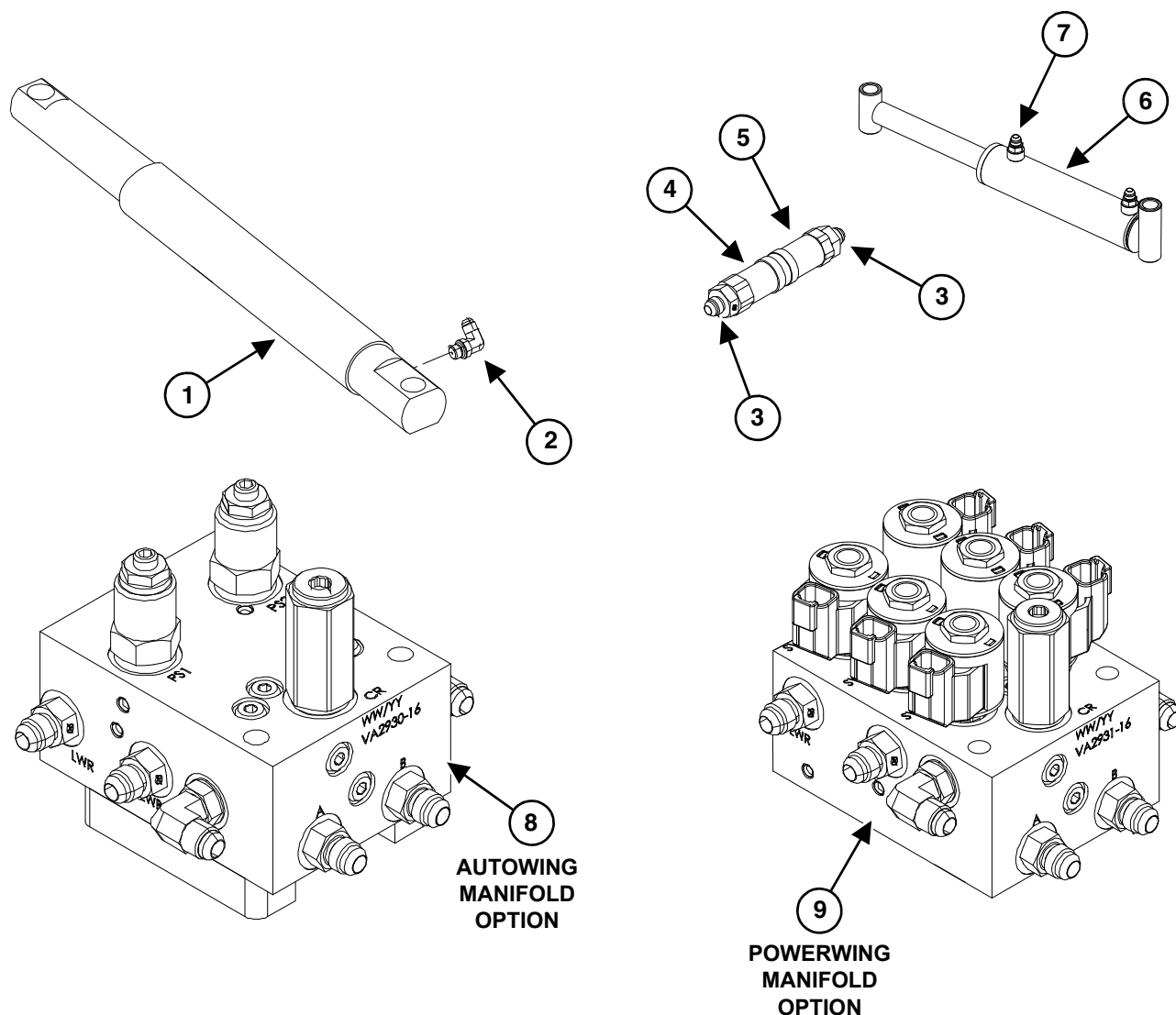
# Hydraulics QPXT126, QP1XT138, QPXT150

## Hydraulic Hoses (QPXT Models)



| ITEM | PART # | DESCRIPTION                             | QPXT-126<br>QTY | QPXT-138<br>QTY | QPXT-150<br>QTY |
|------|--------|-----------------------------------------|-----------------|-----------------|-----------------|
| 1    | P60076 | HOSE, 3/8" x 66", 3000 PSI, 6FJIC-6FJIC | 4               | 0               | 0               |
|      | P60078 | HOSE, 3/8" x 72", 3000 PSI, 6FJIC-6FJIC | 0               | 4               | 0               |
|      | P60080 | HOSE, 3/8" x 78", 3000 PSI, 6FJIC-6FJIC | 0               | 0               | 4               |
| 2    | P60082 | HOSE, 3/8" x 38", 3000 PSI, 6FJIC-6FJIC | 2               | 2               | 2               |
| 3    | P50008 | HOSE, 3/8" x 78", 3000 PSI, 6FJIC-8FJIC | 2               | 2               | 2               |

## Hydraulic Components (QPXT Models)



| ITEM | PART #   | DESCRIPTION                                                  | QTY |
|------|----------|--------------------------------------------------------------|-----|
| 1    | P50006-B | ANGLE CYLINDER, NITRO STEEL 2" ROD                           | 2   |
| 2    | P60086   | FITTING, ELBOW, 6MJIC - 6MORB (6801R-06-06-.07)              | 2   |
| 3    | P50009-A | FITTING, #8 MJIC X #12 MORB                                  | 2   |
| 4    | P50010M  | COUPLER, 1/2" MALE FLAT FACE 1/2" BODY x 3/4" SAE PORT       | 1   |
| 5    | P50010F  | COUPLER, 1/2" FEMALE FLAT FACE 1/2" BODY x 3/4" SAE PORT     | 1   |
| 6    | P60055   | WING CYLINDER, DUAL ACTING, LEFT & RIGHT, NITRO ROD          | 2   |
| 7    | P60069   | FITTING, #6MORB-#6MJIC, STRAIGHT                             | 4   |
| 8    | P60068-K | MANIFOLD, AUTOWING W/VALVES (with Fittings) See page 75      | 1   |
| 9    | P60093   | POWERWING MANIFOLD WITH FITTINGS & DIODE HARNESS See page 76 | 1   |

## Decal Identification (QPXT Models)

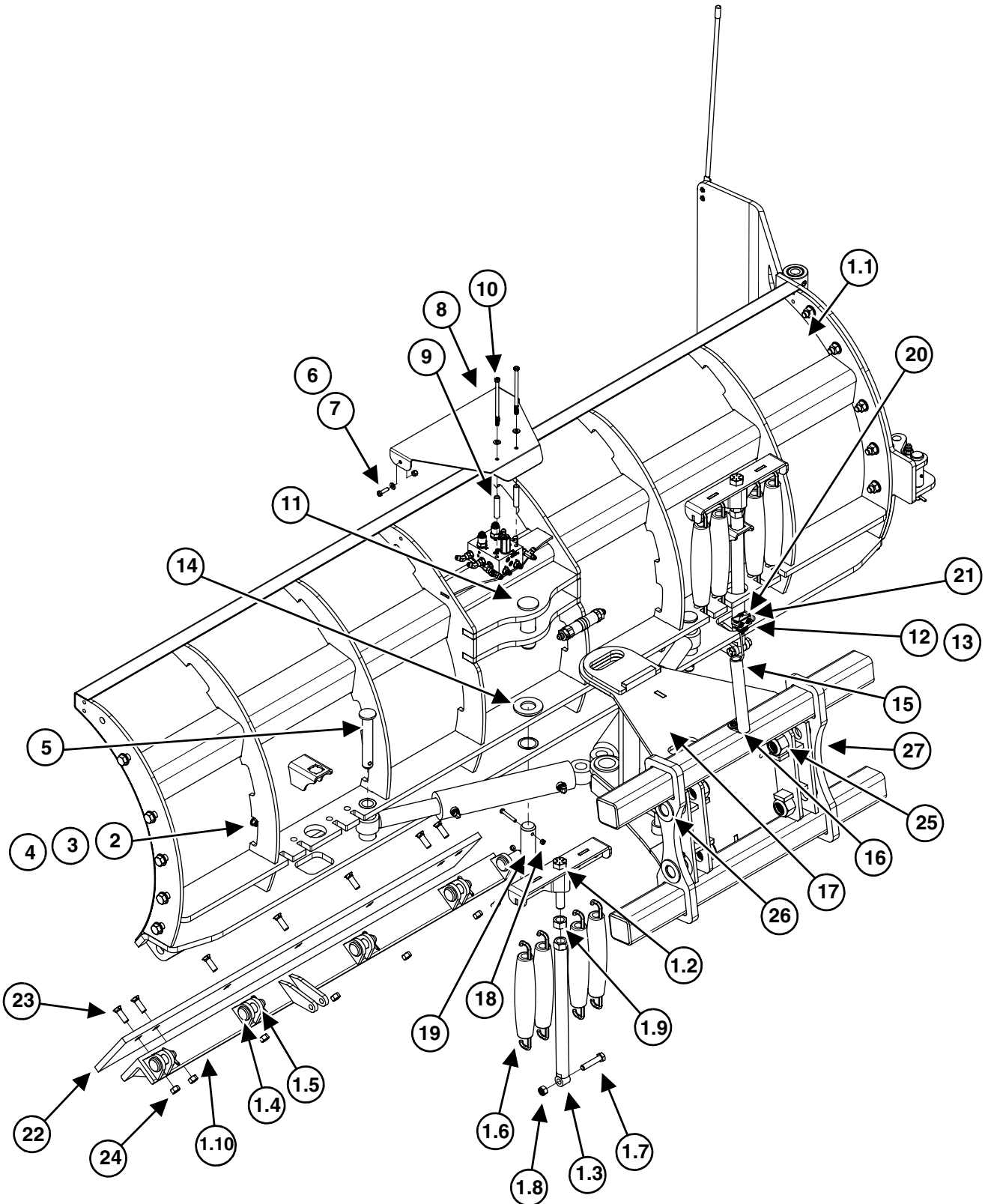
| PART # | DESCRIPTION                      | QPXT-126<br>QTY | QPXT-138<br>QTY | QPXT-150<br>QTY |
|--------|----------------------------------|-----------------|-----------------|-----------------|
| DC96   | DECAL, QUATTROPLOW, QPXT-126     | 2               | 0               | 0               |
| DC97   | DECAL, QUATTROPLOW, QPXT-138     | 0               | 2               | 0               |
| DC98   | DECAL, QUATTROPLOW, QPXT-150     | 0               | 0               | 2               |
| DC28   | DECAL, SNOWWOLF, MOLDBOARD LEFT  | 1               | 1               | 1               |
| DC29   | DECAL, WOLFHEAD, MOLDBOARD RIGHT | 1               | 1               | 1               |
| DC36   | DECAL, WOLFHEAD, LEFT SIDEPLATE  | 1               | 1               | 1               |
| DC58   | DECAL, "PATENTS PENDING" WHITE   | 1               | 1               | 1               |
| DC68   | DECAL, TAG US, BLACK W/YELLOW    | 1               | 1               | 1               |
| P20019 | DECAL, "DANGER PINCH AREA"       | 4               | 4               | 4               |
| SWSN   | DECAL, SERIAL #                  | 1               | 1               | 1               |



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# Models QPHD146, QPHD170

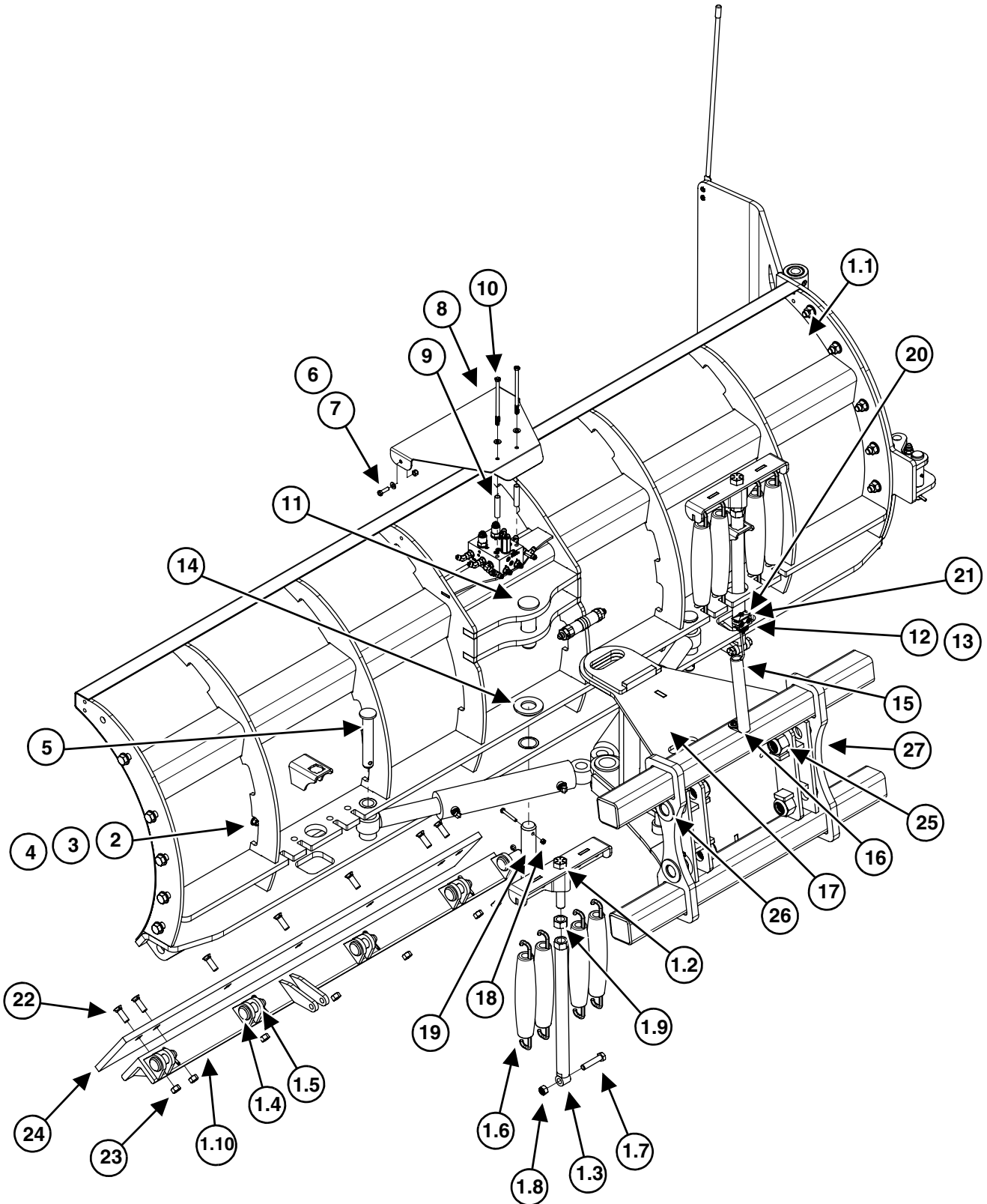
## Parts



| ITEM | PART #  | DESCRIPTION                                   | QPHD-146<br>QTY | QPHD-170<br>QTY |
|------|---------|-----------------------------------------------|-----------------|-----------------|
| 1    | P80074  | MOLDBOARD ASSEMBLY 120" 10FT HD               | 1               | 0               |
|      | P80075  | MOLDBOARD ASSEMBLY 144" 12FT HD               | 0               | 1               |
| 1.1  | P80100  | MOLDBOARD ONLY, 120" 10FT HD                  | 1               | 0               |
|      | P80101  | MOLDBOARD ONLY, 144" 12FT HD                  | 0               | 1               |
| 1.2  | P80080  | SPRING ADJUSTER ASSEMBLY, HD                  | 2               | 2               |
| 1.3  | P80081  | WELDMENT, SPRING BAR, HD                      | 2               | 2               |
| 1.4  | P40006  | PIN, UPPER PIVOT/TRIP EDGE 1-3/16" x 3"       | 9               | 11              |
| 1.5  | P40007  | PIN, COTTER, 1/4" x 2", ZINC                  | 9               | 11              |
| 1.6  | P40010B | SPRING, TRIP, 6'-10' NEW STYLE                | 8               | 8               |
| 1.7  | P40013  | BOLT, HEX, 5/8-11 x 3, ZINC, GR 8             | 2               | 2               |
| 1.8  | P40012  | NUT, LOCK, 5/8-11, ZINC, GR C                 | 2               | 2               |
| 1.9  | P60065  | NUT, HEX, 1" - 8, YELLOW ZINC, GR 8           | 2               | 2               |
| 1.10 | P80076  | TRIP EDGE WELDMENT, LEFT HAND 120" (10FT)     | 1               | 0               |
| 1.10 | P80077  | TRIP EDGE WELDMENT, RIGHT HAND 120" (10FT)    | 1               | 0               |
|      | P80078  | TRIP EDGE WELDMENT, LEFT HAND 144" (12FT)     | 0               | 1               |
|      | P80079  | TRIP EDGE WELDMENT, RIGHT HAND 144" (12FT)    | 0               | 1               |
| 2    | P60222  | WASHER, FLAT, 1/2" SAE, ZINC                  | 4               | 4               |
| 3    | P25045  | NUT, LOCK, 1/2" ZINC, GR C                    | 2               | 2               |
| 4    | P80050  | BOLT, HEX, 1/2" x 1-1/2", ZINC, GR 5          | 2               | 2               |
| 5    | P80004  | PIN, RAM ANCHOR 1.25 X 7.5 BLADE OR FRAME END | 4               | 4               |
| 6    | P60210  | BOLT, HEX, 3/8" x 1-1/4"                      | 3               | 3               |
| 7    | P60211  | NUT, HEX, NYLOCK, 3/8", ZINC, GR 8            | 6               | 6               |
| 8    | P80086  | MANIFOLD SHROUD, QUATTRO HD                   | 1               | 1               |
| 9    | P60089  | MANIFOLD SHROUD BOLT SPACER                   | 2               | 2               |
| 10   | P80052  | BOLT, HEX, 3/8" x 6-1/2", ZINC, GR 5          | 2               | 2               |
| 11   | P80002  | PIN, UPPER PIVOT, 1.75" x 6.00"               | 1               | 1               |
| 12   | P60209  | WASHER, FLAT, 1/2" USS, ZINC                  | 3               | 3               |
| 13   | P60094  | BOLT, HEX, 5/16-18 x 2-1/2" ZINC, GR 5        | 3               | 3               |
| 14   | P80116  | WASHER, CUSTOM, LOWER PIVOT                   | 1               | 1               |
| 15   | P60084  | SPRING, HOSE HOLDER                           | 1               | 1               |
| 16   | P60088  | WASHER, FLAT, 3/8" SAE, ZINC                  | 5               | 5               |

## Models QPHD146, QPHD170 (Cont'd)

### Parts (Cont'd)



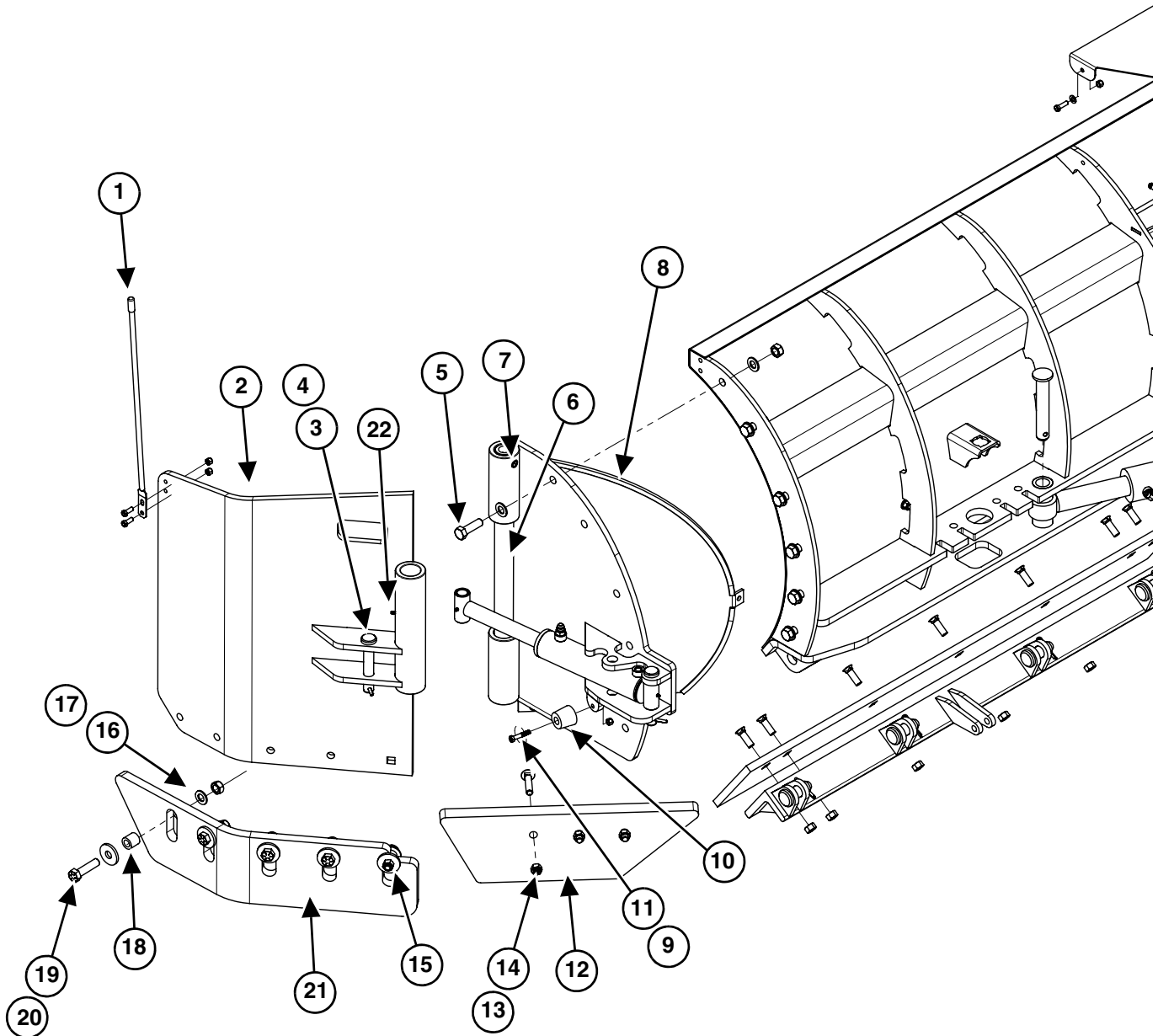
| ITEM                                                                           | PART # | DESCRIPTION                           | QPHD-146<br>QTY | QPHD-170<br>QTY |
|--------------------------------------------------------------------------------|--------|---------------------------------------|-----------------|-----------------|
| 17                                                                             | P80087 | A-FRAME, HD                           | 1               | 1               |
| 18                                                                             | P60090 | NUT, HEX, NYLOCK, 5/16"-18            | 3               | 3               |
| 19                                                                             | P80003 | PIN, LOWER PIVOT, 1.75" x 8.5"        | 1               | 1               |
| 20                                                                             | P60159 | HOSE CLAMP                            | 1               | 1               |
| 21                                                                             | P60160 | PLATE, HOSE CLAMP                     | 1               | 1               |
| 22                                                                             | P80017 | BOLT, 5/8-11 x 2", PLAIN FINISH, GR 8 | 14              | 16              |
| 23                                                                             | P60009 | NUT, HEX, 5/8-11, ZINC                | 14              | 16              |
| For items above 23: See "Options (QPHD Models)" on page 68.                    |        |                                       |                 |                 |
| For hydraulic hoses: See "Hydraulic Hoses (QPHD Models)" on page 72.           |        |                                       |                 |                 |
| For hydraulic components: See "Hydraulic Components (QPHD Models)" on page 73. |        |                                       |                 |                 |

## Options (QPHD Models)

| ITEM | PART #                                                 | DESCRIPTION                                         | QPHD-146<br>QTY | QPHD-170<br>QTY |
|------|--------------------------------------------------------|-----------------------------------------------------|-----------------|-----------------|
|      | <b>STANDARD BLADE</b>                                  |                                                     |                 |                 |
| 24   | P80011-A                                               | CUTTING EDGE, 10' WITH HARDWARE                     | 1               | 0               |
|      | P80011-B                                               | CUTTING EDGE, 12' WITH HARDWARE                     | 0               | 1               |
|      | <b>MOUNT OPTIONS</b><br>All Mounts                     |                                                     |                 |                 |
| 25   | P80088                                                 | NUT, HEX, NYLOCK, 1-1/2"-6                          | 4               | 4               |
| 26   | P80089                                                 | WASHER, FLAT, 1-1/2"                                | 8               | 8               |
| 27   | P80096                                                 | MOUNTING KEEPER, WISHBONE, MOUNTING<br>PLATE KEEPER | 2               | 2               |
|      | <b>CAT - IT (MT100 KIT)</b>                            |                                                     |                 |                 |
| NS   | P80048                                                 | BOLT, 1-1/2"-6 x 8", PLAIN FINISH, GR 8             | 4               | 4               |
| NS   | P80072                                                 | MOUNT PLATE, CAT IT LEFT SIDE                       | 1               | 1               |
| NS   | P80073                                                 | MOUNT PLATE, CAT IT RIGHT SIDE                      | 1               | 1               |
|      | <b>CAT - FUSION (MT200 KIT)</b>                        |                                                     |                 |                 |
| NS   | P80048                                                 | BOLT, 1-1/2"-6 x 8", PLAIN FINISH, GR 8             | 4               | 4               |
| NS   | P80094                                                 | MOUNT PLATE, CAT FUSION, LEFT HAND                  | 1               | 1               |
| NS   | P80095                                                 | MOUNT PLATE, CAT FUSION, RIGHT HAND                 | 1               | 1               |
| NS   | P81008                                                 | MOUNT SPACER, CAT FUSION                            | 4               | 4               |
|      | <b>JRB-416 (MT300 KIT)</b>                             |                                                     |                 |                 |
| NS   | P80053                                                 | BOLT, 1-1/2"-6 x 12", PLAIN FINISH, GR 8            | 4               | 4               |
| NS   | P80090                                                 | MOUNT PLATE, JRB, RIGHT HAND                        | 1               | 1               |
| NS   | P80091                                                 | MOUNT PLATE, JRB, LEFT HAND                         | 1               | 1               |
| NS   | P80092                                                 | MOUNT SPACER, JRB                                   | 4               | 4               |
|      | <b>VOLVO (MT500 KIT)</b>                               |                                                     |                 |                 |
| NS   | P80098                                                 | MOUNT PLATE, VOLVO, LEFT HAND                       | 1               | 1               |
| NS   | P80099                                                 | MOUNT PLATE, VOLVO, RIGHT HAND                      | 1               | 1               |
| NS   | P81005                                                 | MOUNT SPACER, VOLVO                                 | 4               | 4               |
| NS   | P81006                                                 | BOLT, HEX, 1-1/2"-6 x 16", PLAIN FINISH             | 4               | 4               |
|      | <b>UNIVERSAL WELD ON MOUNT (MT600 KIT) (UNPAINTED)</b> |                                                     |                 |                 |
| NS   | P80048                                                 | BOLT, HEX, 1-1/2"-6 x 8"                            | 4               | 4               |
| NS   | P80088                                                 | NUT, HEX, NYLOCK, 1-1/2"-6                          | 4               | 4               |
| NS   | P80049                                                 | WASHER, FLAT, 1-1/2"                                | 8               | 8               |
| NS   | P80096                                                 | MOUNTING KEEPER, WISHBONE                           | 2               | 2               |
| NS   | P81008                                                 | MOUNT SPACER                                        | 4               | 4               |
| NS   | P81012                                                 | MOUNT PLATE, FOR UNIVERSAL                          | 2               | 2               |

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## Side Wing (QPHD Models)



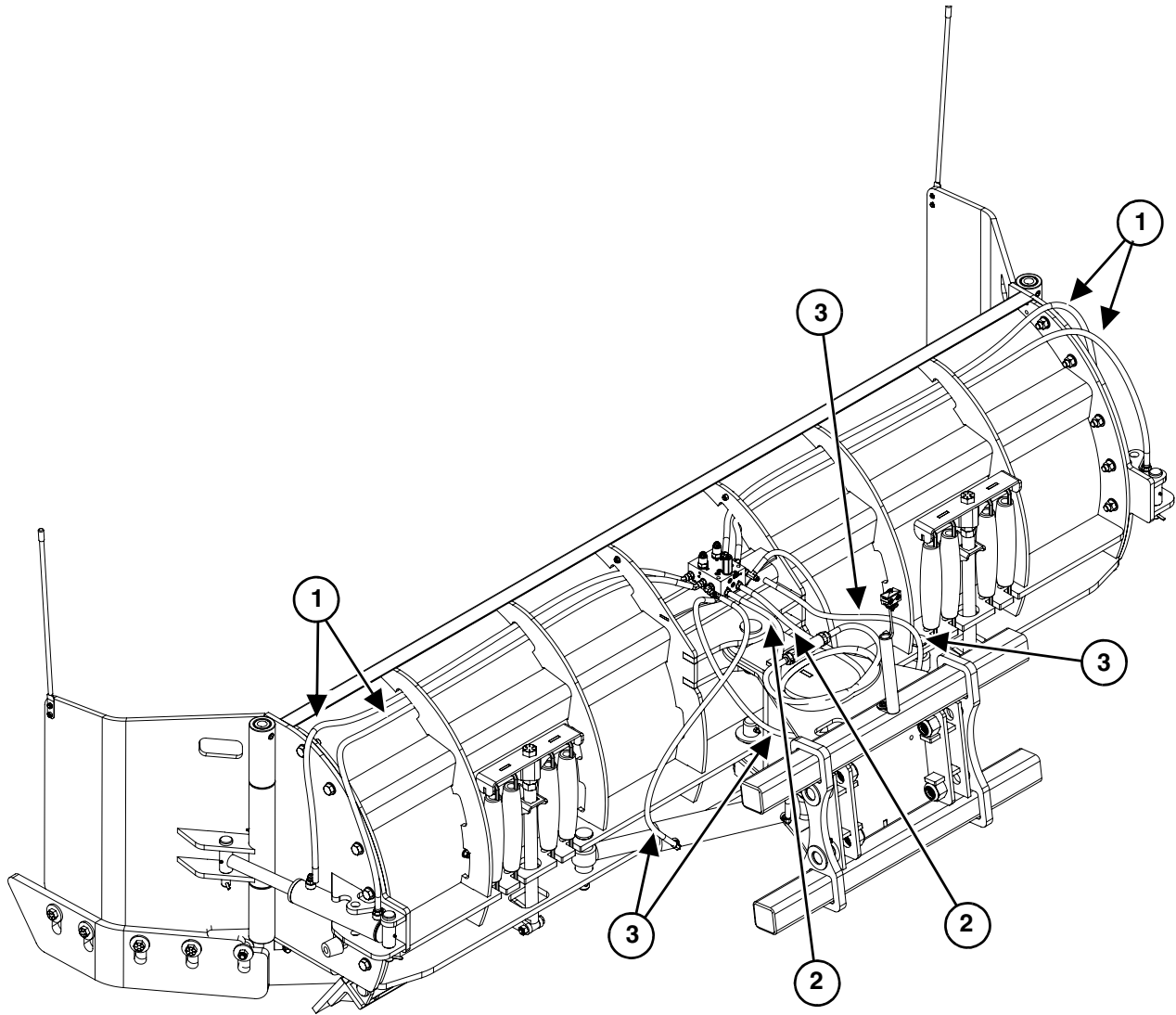


| ITEM | PART # | DESCRIPTION                                        | QPHD-146<br>QTY | QPHD-170<br>QTY |
|------|--------|----------------------------------------------------|-----------------|-----------------|
| 1    | P50001 | BLADE MARKER GUIDE SET                             | 1               | 1               |
| 2    | P80083 | WING, QUATTRO PLOW HD, RH                          | 1               | 1               |
| NS   | P80085 | WING, QUATTRO PLOW HD, LH                          | 1               | 1               |
| 3    | P50004 | PIN, RAM ANCHOR (BLADE END) 1" x 6'                | 4               | 4               |
| 4    | P40007 | PIN, COTTER, 1/4" x 2", ZINC                       | 4               | 4               |
| 5    | P80039 | BOLT, HEX, 3/4-10 x 2-1/2", ZINC, GR 8             | 12              | 12              |
| 6    | P80097 | HINGE PIN, FOR QPHD WING                           | 2               | 2               |
| 7    | P80047 | PIN, ROLL, 3/4" x 3"                               | 2               | 2               |
| 8    | P80082 | WING, QUATTRO PLOW HD, LEFT REAR WELDMENT          | 1               | 1               |
| 9    | P60211 | NUT, HEX, NYLOCK, 3/8", ZINC, GR 8                 | 6               | 6               |
| 10   | P60158 | WING BUMP STOP, 2"W x 1-3/4"H 3/8" BOLT DIA        | 2               | 2               |
| 11   | P60235 | BOLT, HEX, 3/8" x 2", ZINC, GR 8                   | 2               | 2               |
| 12   | P80061 | CUTTING EDGE, URETHANE, LEFT- RIGHT (REAR ONLY) HD | 2               | 2               |
| 13   | P80035 | BOLT, CARRIAGE, 5/8-11 x 3", ZINC, GR 5            | 8               | 8               |
| 14   | P40012 | NUT, LOCK, 5/8-11, ZINC, GR C                      | 8               | 8               |
| 15   | P60095 | WASHER, FLAT 3/4" USS                              | 10              | 10              |
| 16   | P20028 | NUT, LOCK, 3/4-10, GR C                            | 20              | 20              |
| 17   | P30051 | WASHER, FLAT, 3/4 SAE                              | 32              | 32              |
| 18   | P60019 | BUSHING, Ø1.25" x 1.20"                            | 10              | 10              |
| 19   | P60015 | WASHER, CUSTOM, 2.25" STEEL EDGE                   | 10              | 10              |
| 20   | P70005 | BOLT, HEX, 3/4" x 3" ZINC, GR 8                    | 8               | 8               |
| 21   | P60017 | WING EDGE, STEEL, LEFT SIDE                        | 1               | 1               |
| 22   | P25562 | GREASE ZERK, 3/16" POUND IN                        | 2               | 2               |
| NS   | P60018 | WING EDGE, STEEL, RIGHT SIDE                       | 1               | 1               |

For hydraulic hoses: See "Hydraulic Hoses (QPHD Models)" on page 72.

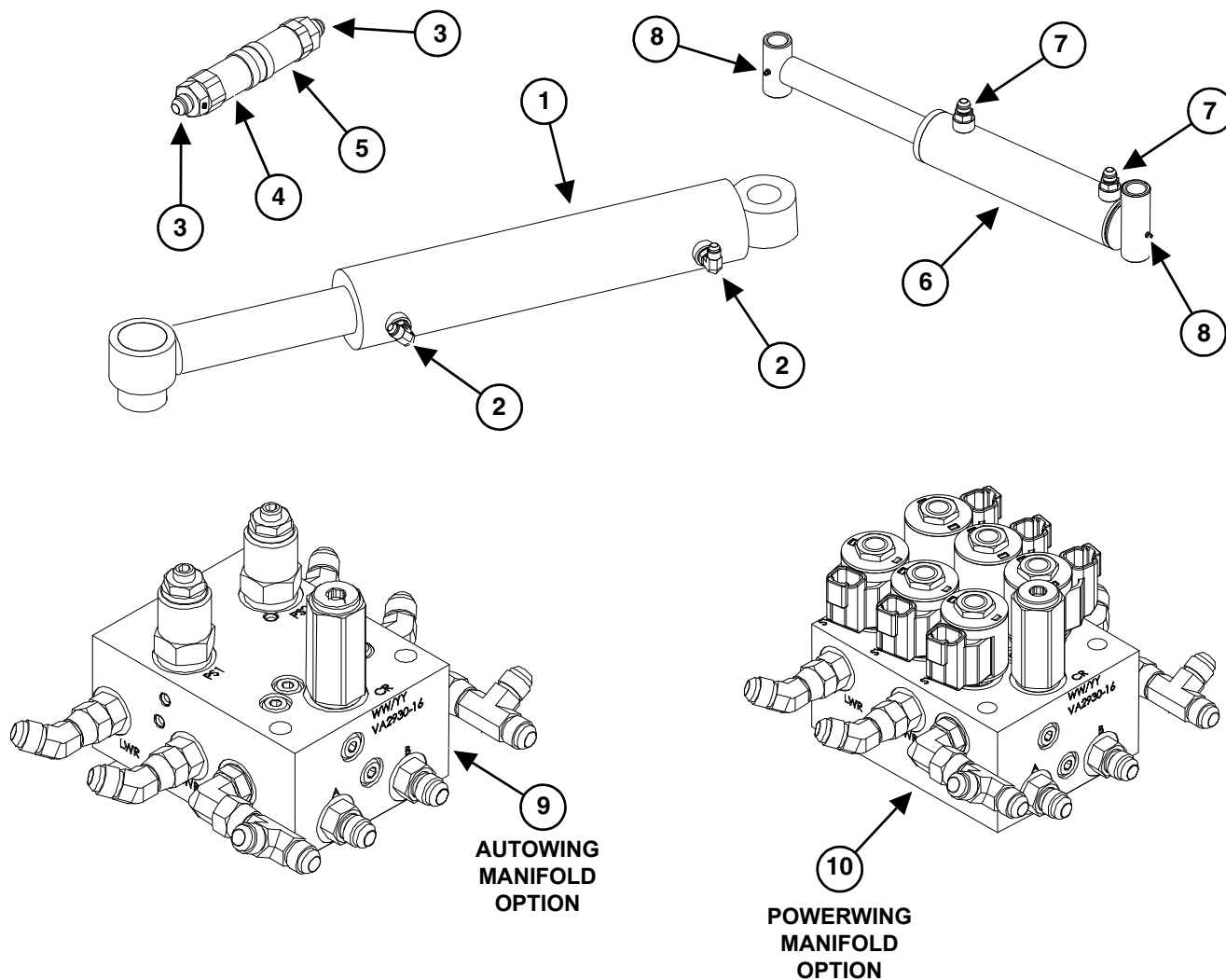
# Hydraulics QPHD146, QPHD170

## Hydraulic Hoses (QPHD Models)



| ITEM | PART #   | DESCRIPTION                             | QPHD-146<br>QTY | QPHD-170<br>QTY |
|------|----------|-----------------------------------------|-----------------|-----------------|
| 1    | P50008   | HOSE, 3/8" x 78", 3000 PSI, 6FJIC-8FJIC | 4               | 0               |
| 2    | P50008-D | HOSE, 3/8" x 94", 3000 PSI, 6FJIC-8FJIC | 2               | 6               |
| 3    | P60082   | HOSE, 3/8" x 38", 3000 PSI, 6FJIC-6FJIC | 4               | 4               |

## Hydraulic Components (QPHD Models)



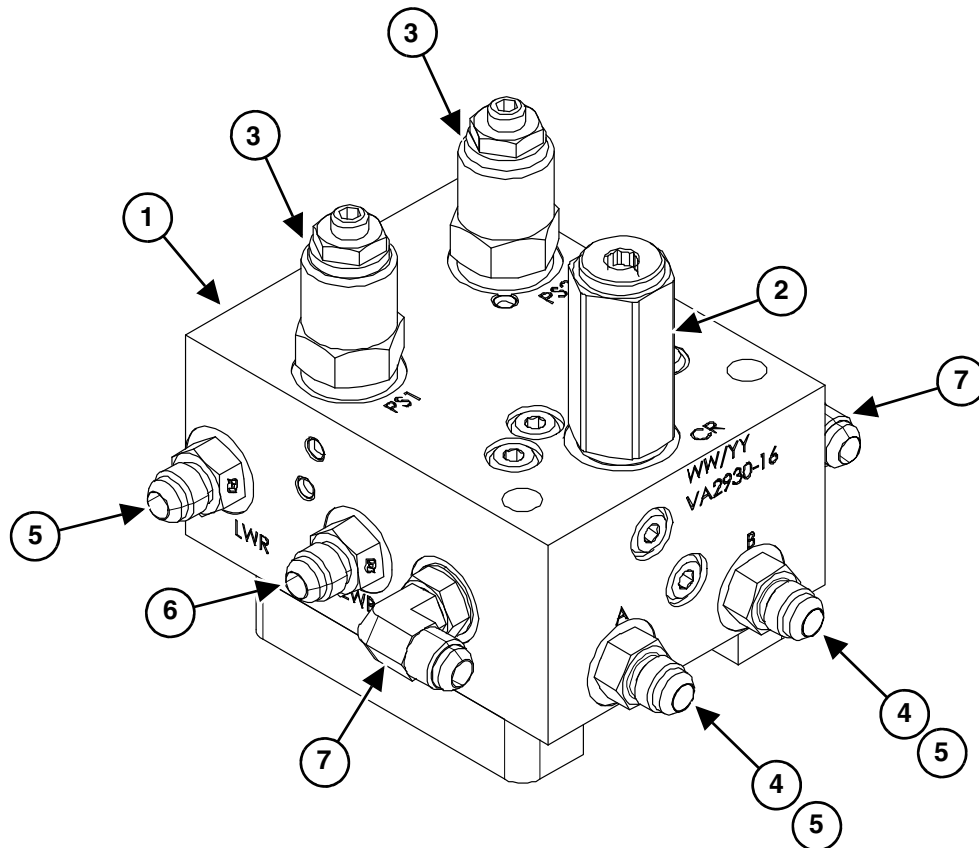
| ITEM | PART #   | DESCRIPTION                                                      | QTY |
|------|----------|------------------------------------------------------------------|-----|
| 1    | P80006-1 | ANGLE CYLINDER, NITRO STEEL 3" BORE, DOUBLE ACTING               | 2   |
| 2    | P60085   | FITTING, 90 DEG, #6MORB-#6MJIC                                   | 4   |
| 3    | P50009-A | FITTING, #8 MJIC X #12 MORB                                      | 2   |
| 4    | P50010F  | COUPLER, 1/2" FEMALE FLAT FACE 1/2" BODY x 3/4" SAE PORT         | 1   |
| 5    | P50010M  | COUPLER, 1/2" MALE FLAT FACE 1/2" BODY x 3/4" SAE PORT           | 1   |
| 6    | P80056   | CYLINDER, QUATTRO WING, DUAL ACTING, LEFT & RIGHT                | 2   |
| 7    | P38077   | FITTING, #8 MJIC - #8MORB, STR                                   | 4   |
| 8    | P25562   | GREASE ZERK, 3/16" POUND IN                                      | 2   |
| 9    | P80051-K | MANIFOLD, AUTOWING ASSY, HD W/VALVES (with fittings) See page 77 | 1   |
| 10   | QPHD-PW  | POWERWING MANIFOLD WITH FITTINGS & DIODE HARNESS See page 78     | 1   |

## Decal Identification (QPHD Models)

| PART # | DESCRIPTION                             | QPHD-146<br>QTY | QPHD-170<br>QTY |
|--------|-----------------------------------------|-----------------|-----------------|
| DC72   | DECAL, QUATTROPLOW, HD-146              | 1               | 0               |
| DC73   | DECAL, QUATTROPLOW, HD-170              | 0               | 1               |
| DC74   | DECAL, WING, QPHD                       | 1               | 0               |
| DC75   | DECAL, WING, QPHD                       | 0               | 1               |
| DC77   | DECAL, "PATENTS PENDING" BLACK          | 2               | 2               |
| DC79   | DECAL, WOLFHEAD, LARGE, LEFT SIDE, QPHD | 1               | 1               |
| DC28   | DECAL, SNOWWOLF, MOLDBOARD LEFT         | 1               | 1               |
| DC29   | DECAL, WOLFHEAD, MOLDBOARD RIGHT        | 1               | 1               |
| DC68   | DECAL, TAG US, BLACK W/YELLOW           | 1               | 1               |
| P20019 | DECAL, "DANGER PINCH AREA"              | 4               | 4               |
| SWSN   | DECAL, SERIAL #                         | 1               | 1               |

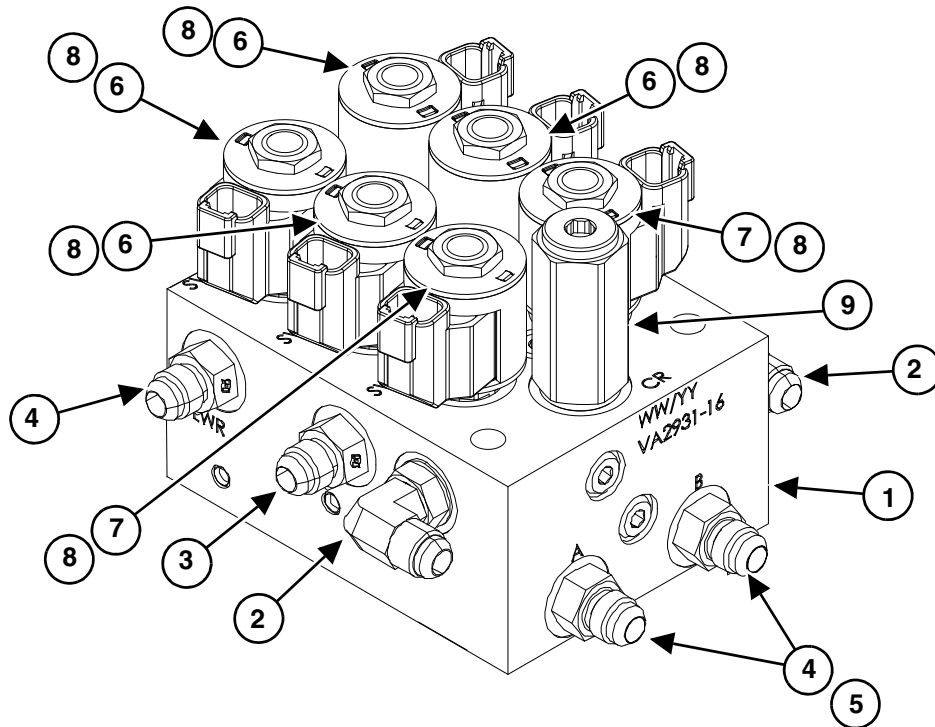
## Options (Model Specific)

### Hydraulic Manifold AutoWing (QP and QPXT Models)



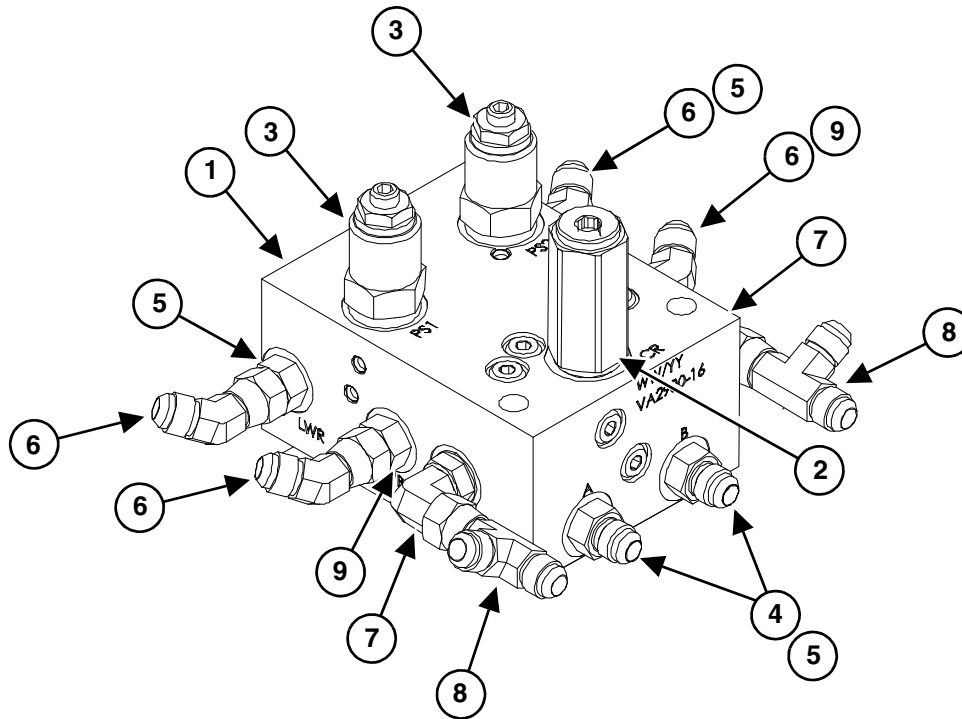
| ITEM | PART #   | DESCRIPTION                                         | QTY |
|------|----------|-----------------------------------------------------|-----|
|      | P60068-K | MANIFOLD, AUTOWING W/VALVES (with Fittings)         | 1   |
| 1    | P60068   | MANIFOLD, AUTOWING ASSEMBLY, W/VALVES (no fittings) | 1   |
| 2    | P60128   | CROSS OVER RELIEF VALVE, 2750 PSI                   | 1   |
| 3    | P60126   | WING CONTROL VALVE, 2250 PSI                        | 2   |
| 4    | P60067   | SLIDING RESTRICTOR, .062                            | 2   |
| 5    | P60069   | FITTING, #6MORB-#6MJIC, STRAIGHT                    | 6   |
| 6    | P38136   | FITTING, 6400-06-06-.035 06MORB/06MJIC (RESTRICTED) | 2   |
| 7    | P60085   | FITTING, 90 DEG, #6MORB-#6MJIC                      | 2   |

## Hydraulic Manifold PowerWing, QP-PW (QP and QPXT Models)



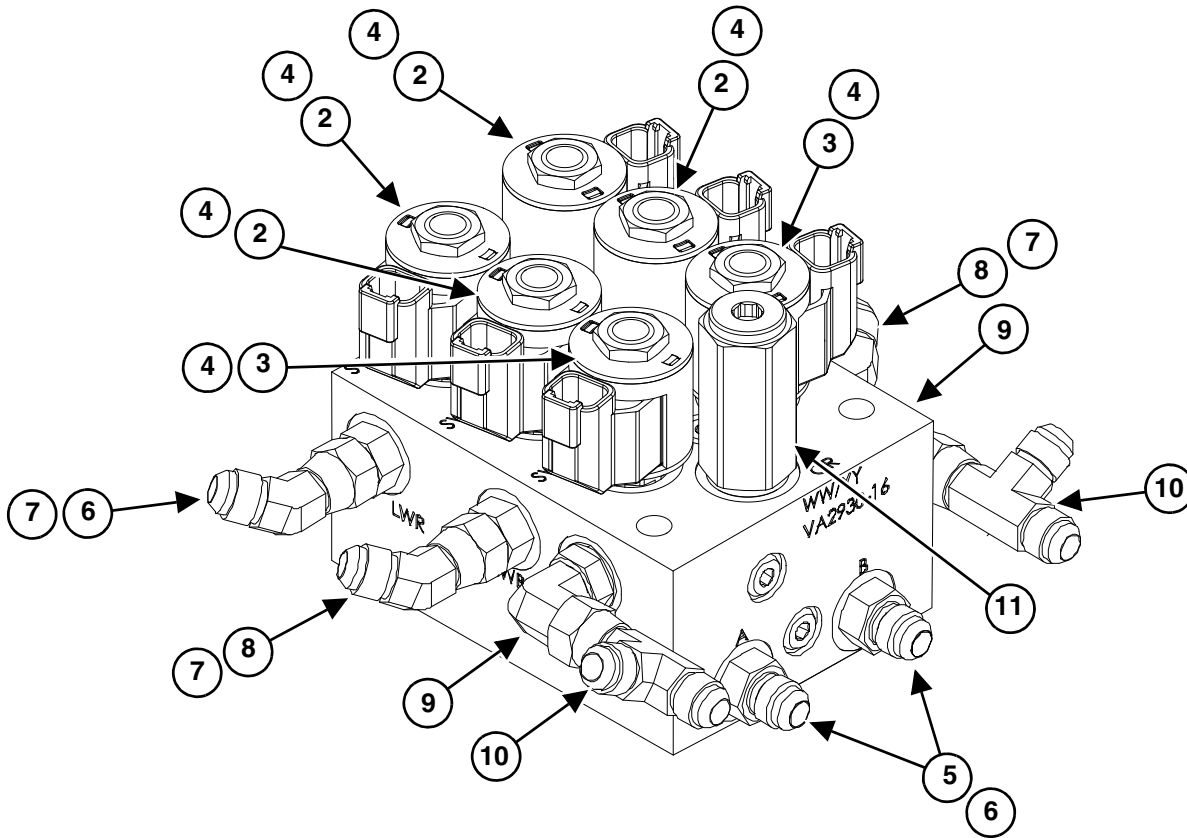
| ITEM | PART # | DESCRIPTION                                           | QTY |
|------|--------|-------------------------------------------------------|-----|
|      | QP-PW  | POWERWING MANIFOLD & DIODE HARNESS (with fittings)    | 1   |
| NS   | P60103 | HARNESS, DIODE, QUATTRO POWER                         | 1   |
| 1    | P60093 | MANIFOLD, ASSEMBLY W/VALVES (no fittings)             | 1   |
| 2    | P60085 | FITTING, 90 DEG, #6MORB-#6MJIC                        | 2   |
| 3    | P38136 | FITTING, 6400-06-06-.035 06MORB/06MJIC (RESTRICTED)   | 2   |
| 4    | P60069 | FITTING, STR, #6MORB-#6MJIC                           | 4   |
| 5    | P60129 | SLIDING RESTRICTOR, .0465                             | 2   |
| 6    | P60125 | VALVE, SOLENIOD, (FOR WINGS ONLY)                     | 4   |
| 7    | P60124 | VALVE, SOLENIOD, (FOR ANGLE ONLY)                     | 2   |
| 8    | P30033 | E-COIL, 12 VDC                                        | 6   |
| 9    | P60128 | CROSS OVER RELIEF VALVE, 2750 PSI                     | 1   |
| NS   | MFJC   | CONTROLLER, MULTI-FUNCTION                            | 1   |
| NS   | P60262 | 18" ADAPTER HARNESS, CAT, 14-PIN                      | 1   |
|      | P60263 | 18" ADAPTER HARNESS, CAT, 8-PIN                       | 1   |
|      | P60264 | 18" ADAPTER HARNESS, BOBCAT, 7-PIN                    | 1   |
|      | P60265 | 18" ADAPTER HARNESS, ASV/TEREX, 14-PIN                | 1   |
|      | P60266 | 18" ADAPTER HARNESS, COMMON 14-PIN                    | 1   |
|      | P60267 | 18" ADAPTER HARNESS, ASV/TEREX, 8-PIN                 | 1   |
|      | P60268 | ADAPTER HARNESS, BOBCAT CANBUS 7-PIN TO ANALOG 14-PIN | 1   |
|      | P60269 | 18" ADAPTER HARNESS, COMMON 8-PIN                     | 1   |

## Hydraulic Manifold AutoWing (HD Models)



| ITEM | PART #   | DESCRIPTION                                              | QTY |
|------|----------|----------------------------------------------------------|-----|
|      | P80051-K | MANIFOLD, AUTOWING ASSEMBLY, HD W/VALVES (with fittings) | 1   |
| 1    | P80051   | MANIFOLD, AUTOWING, W/VALVES (no fittings)               | 1   |
| 2    | P60128   | CROSS OVER RELIEF VALVE, 2750 PSI                        | 1   |
| 3    | P60126   | WING CONTROL VALVE, 2250 PSI                             | 2   |
| 4    | P10130   | SLIDING RESTRICTOR, .093                                 | 2   |
| 5    | P60069   | FITTING, #6MORB - #6MJIC, STRAIGHT                       | 4   |
| 6    | P38078   | FITTING, #6MJIC - #6 FJIC, 45 DEG                        | 4   |
| 7    | P60085   | FITTING, 90 DEG, #6MORB-#6MJIC                           | 2   |
| 8    | P81002   | FITTING, #6MJIC- #6FMJIX, SWIVEL (RUN TEE)               | 2   |
| 9    | P81009   | FITTING, STRAIGHT CONNECTOR, RESTRICTED, .095            | 2   |

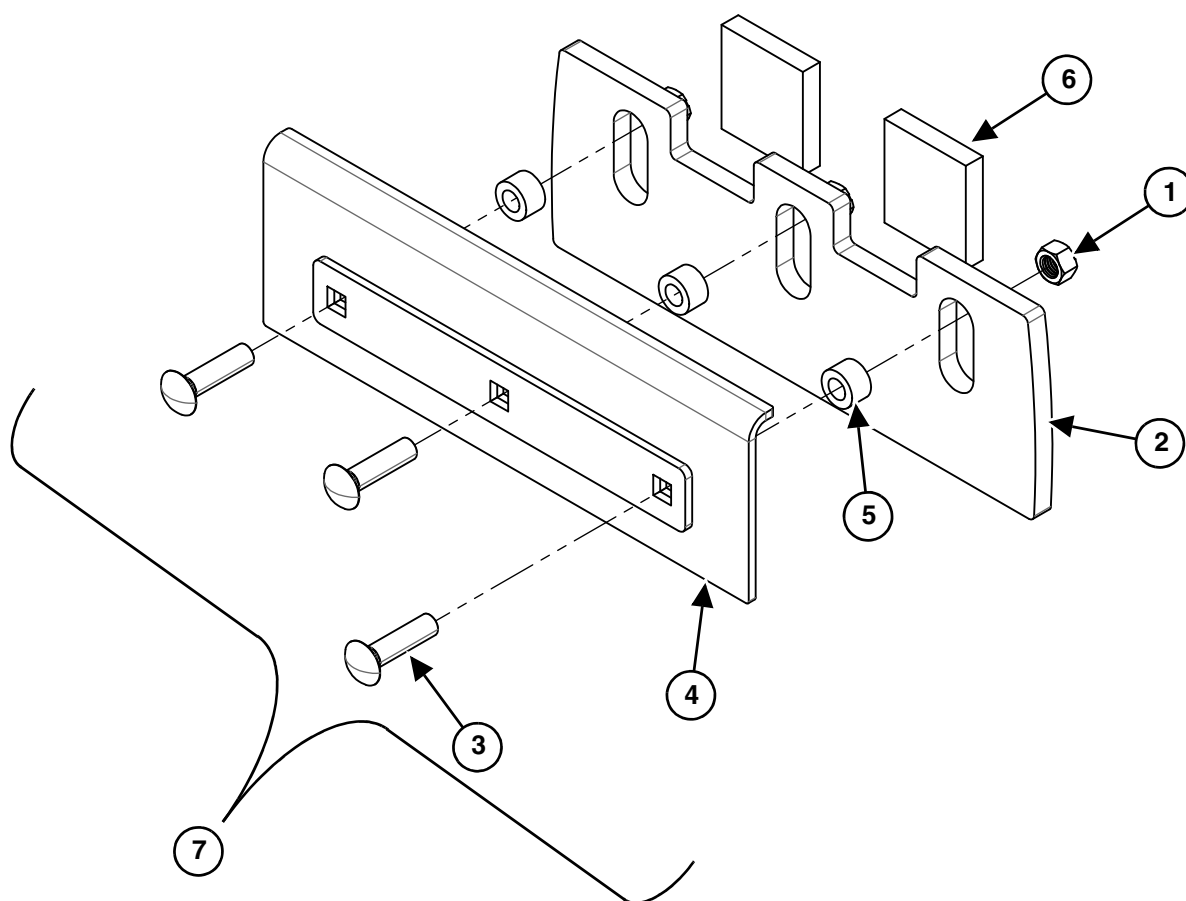
## Power Wing Upgrade QPHD-PW (HD Models)



| ITEM | PART #   | DESCRIPTION                                           | QTY |
|------|----------|-------------------------------------------------------|-----|
|      | P80057-K | MANIFOLD, POWERWING ASSEMBLY W/VALVES (with fittings) | 1   |
| NS   | MFJC     | CONTROLLER, MULTI-FUNCTION                            | 1   |
| 1    | P80057   | MANIFOLD, W/VALVES (no fittings)                      | 1   |
| 2    | P60125   | VALVE, SOLENOID, (for wings only)                     | 4   |
| 3    | P60124   | VALVE, SOLENOID, (for angle only)                     | 2   |
| 4    | P30033   | E-COIL, 12 VDC                                        | 6   |
| 5    | P10130   | SLIDING RESTRICTOR, .093                              | 2   |
| 6    | P60069   | FITTING, #6MORB - #6MJIC, STRAIGHT                    | 4   |
| 7    | P38078   | FITTING, 45 DEG, #6MJIC - #6 FJIC                     | 4   |
| 8    | P81009   | FITTING, STRAIGHT CONNECTOR, RESTRICTED, .095         | 2   |
| 9    | P60085   | FITTING, 90 DEG, #6MORB-#6MJIC                        | 2   |
| 10   | P81002   | FITTING, #6MJIC- #6FMJIX, SWIVEL (RUN TEE)            | 2   |
| 11   | P60128   | CROSS OVER RELIEF VALVE, 2750 PSI                     | 1   |

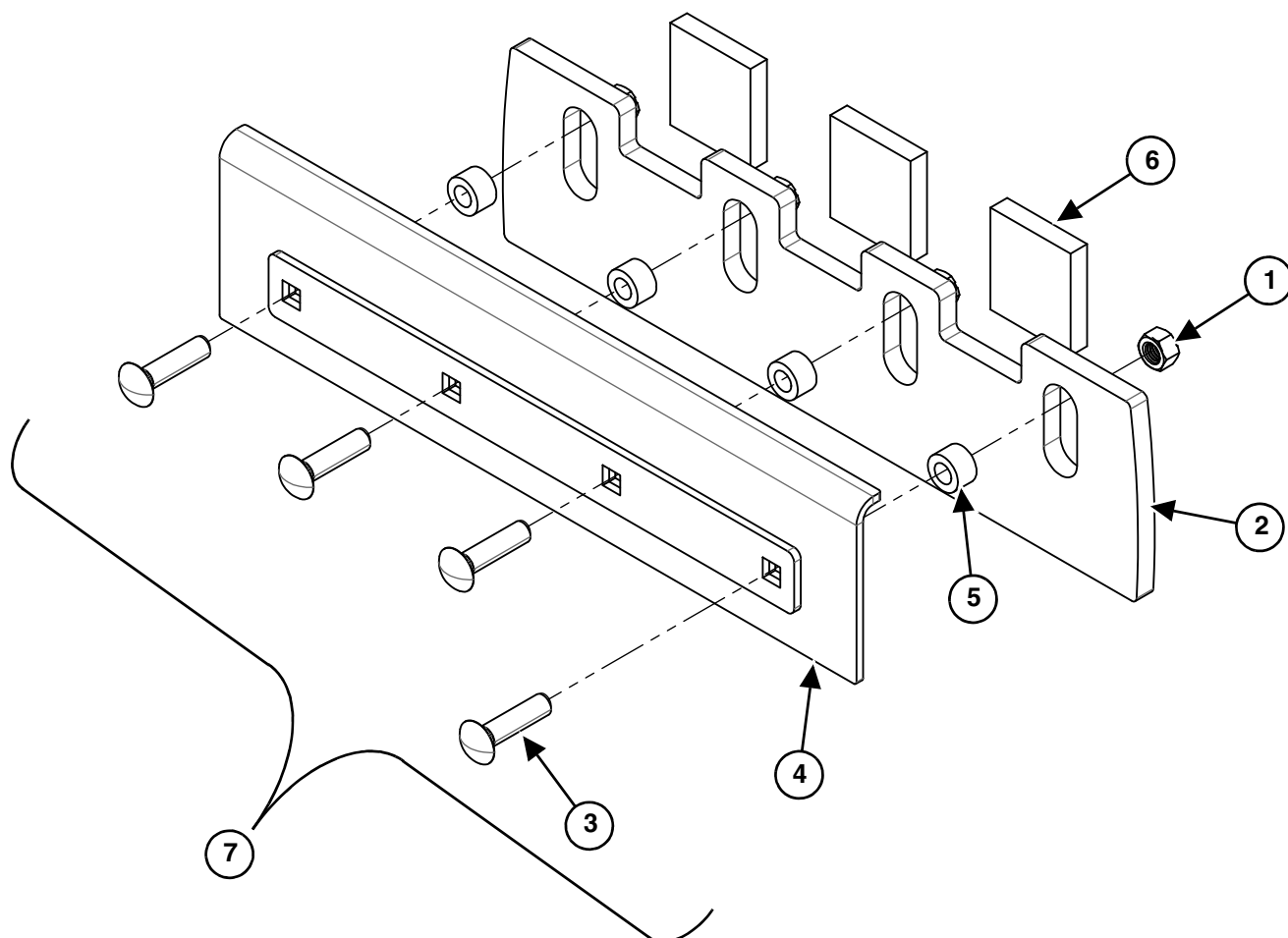


## Active Edge, 18" Sectional Blade (QP and QPXT Models)



| ITEM | PART #        | DESCRIPTION                                              | QTY |
|------|---------------|----------------------------------------------------------|-----|
| 1    | P40012        | NUT, LOCK, 5/8-11, ZINC                                  | 3   |
| 2    | P50011-18-SEC | BLADE, 18"                                               | 1   |
| 3    | P60008        | BOLT, CARRIAGE, 5/8-11 x 2-1/2"                          | 3   |
| 4    | P60255        | RETAINING WELDMENT, 18"                                  | 1   |
| 5    | P60253        | BUSHING, STANOFF                                         | 3   |
| 6    | P60254        | SPRING, RUBBER                                           | 2   |
| 7    | P60251-K      | KIT, 18" SECTION (kit includes items 1, 2, 3, 4, 5, & 6) | 1   |

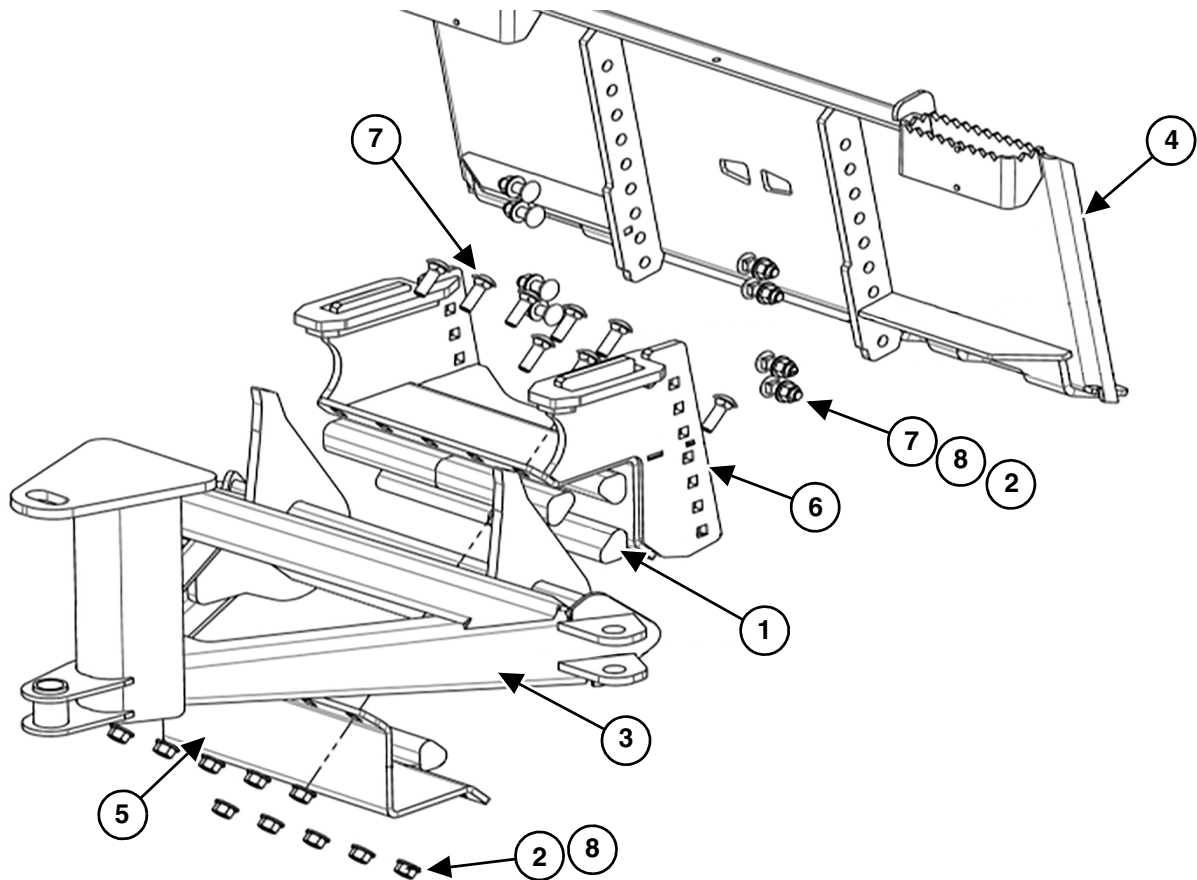
## Active Edge, 24" Sectional Blade (QP and QPXT Models)



| ITEM | PART #        | DESCRIPTION                                              | QTY |
|------|---------------|----------------------------------------------------------|-----|
| 1    | P40012        | NUT, LOCK, 5/8-11, ZINC                                  | 4   |
| 2    | P50011-24-SEC | BLADE, 24"                                               | 1   |
| 3    | P60008        | BOLT, CARRIAGE, 5/8-11 x 2-1/2"                          | 4   |
| 4    | P60252        | RETAINING WELDMENT, 24"                                  | 1   |
| 5    | P60253        | BUSHING, STANOFF                                         | 4   |
| 6    | P60254        | SPRING, RUBBER                                           | 3   |
| 7    | P60250-K      | KIT, 24" SECTION (kit includes items 1, 2, 3, 4, 5, & 6) | 1   |

## Flex Frame

**NOTE:** The Flex Fame is standard on QPXT models and optional on QP models.



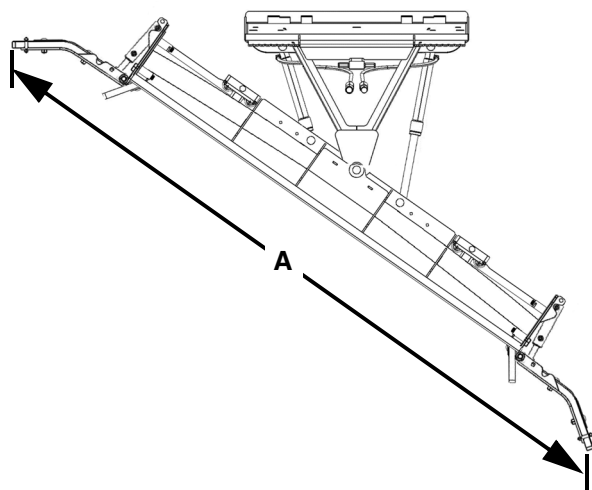
| ITEM | PART # | DESCRIPTION                               | QTY |
|------|--------|-------------------------------------------|-----|
| 1    | P20042 | INSERT RUBBER, FOR T-FRAME, (8.00" LONG)  | 8   |
| 2    | P40012 | NUT, LOCK 5/8-11, ZINC, GRADE C           | 18  |
| 3    | P50027 | FLEX FRAME, A-FRAME WELDMENT, BLACK       | 1   |
| 4    | P50028 | FLEX FRAME MOUNT PLATE                    | 1   |
| 5    | P50029 | REAR TORSION CLAM SHELL                   | 1   |
| 6    | P50030 | FLEX FRAME, REAR TORSION WELDMENT         | 1   |
| 7    | P60010 | BOLT, CARRAIGE, 5/8-11 x 2" ZINC, GRADE 5 | 18  |
| 8    | P60096 | WASHER, FLAT, 5/8" SAE, GR8               | 18  |



|                                               |    |
|-----------------------------------------------|----|
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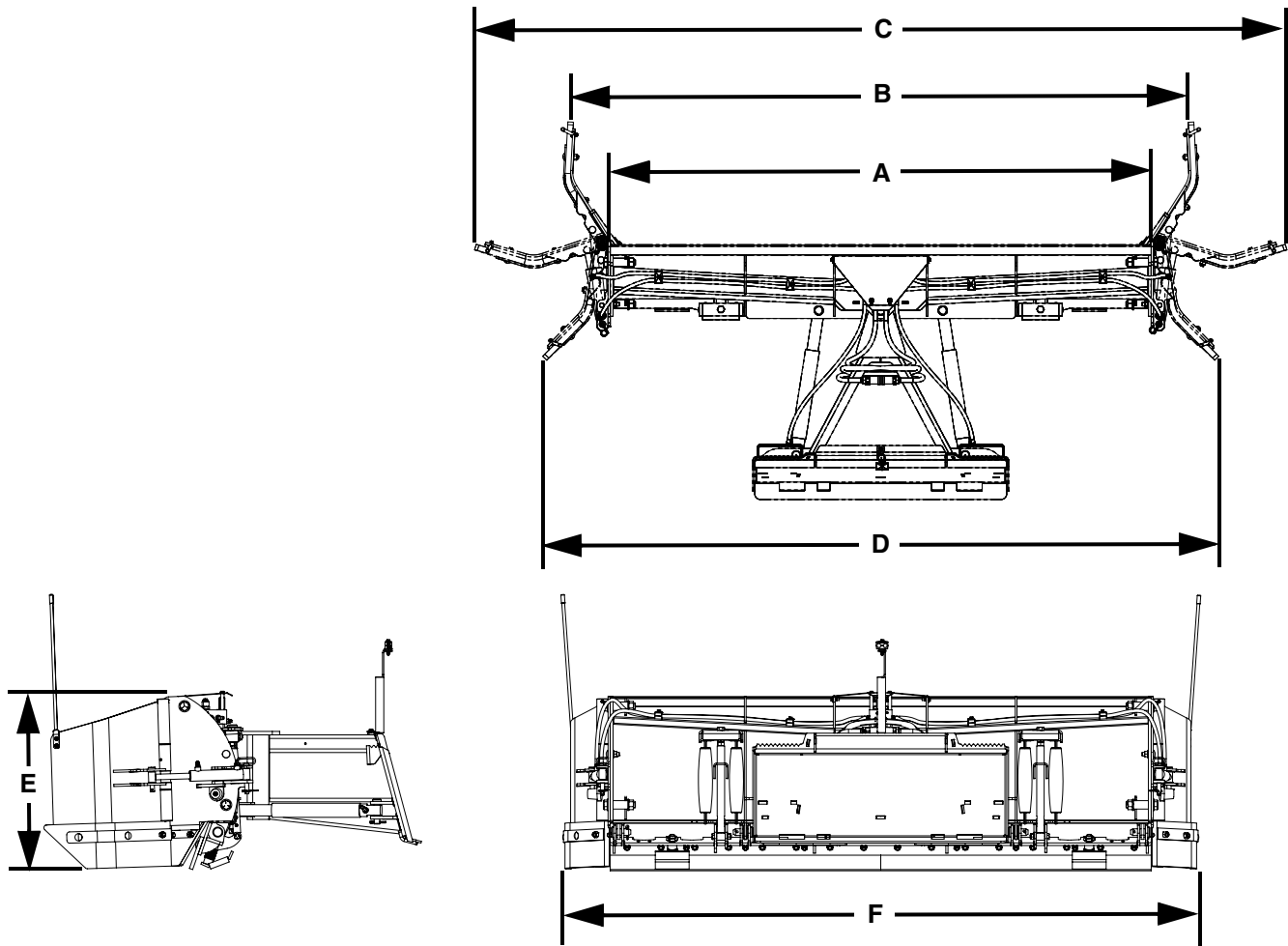


## Attachment Specifications (QP Models)



| DESCRIPTION                      | FOR MACHINES WEIGHING 6,000 TO 10,000 LBS.                          |              |               |               |
|----------------------------------|---------------------------------------------------------------------|--------------|---------------|---------------|
|                                  | QP-102                                                              | QP-114       | QP-126        | QP-138        |
| Blade Width                      | 7.0'                                                                | 8.0'         | 9.0'          | 10.0'         |
| Clearing Width at Wide Angle (A) | 106" (8' 10")                                                       | 116" (9' 8") | 126" (10' 6") | 136" (11' 4") |
| Blade Height                     | 30.7"                                                               | 30.7"        | 30.7"         | 30.7"         |
| Weight (lbs.)                    | 1,132                                                               | 1,269        | 1,301         | 1,345         |
| Moldboard Gauge                  | 10 ga.                                                              | 10 ga.       | 10 ga.        | 10 ga.        |
| Trip Springs                     | 4 Ext.                                                              | 4 Ext.       | 4 Ext.        | 4 Ext.        |
| Wear Shoes                       | Opt.                                                                | Opt.         | Opt.          | Opt.          |
| Active Edge                      | Opt.                                                                | Opt.         | Opt.          | Opt.          |
| Moldboard Cutting Edge           | 5/8" x 6" Top Punch High Carbon Standard, (Carbide Insert Optional) |              |               |               |
| Angle Rams                       | 2" x 13" Nitro Steel UltraMAX                                       |              |               |               |
| Vertical Ribs                    | 6                                                                   | 6            | 6             | 8             |
| Moldboard Radius                 | 14"                                                                 | 14"          | 14"           | 14"           |
| Full Down Pressure               | Yes                                                                 | Yes          | Yes           | Yes           |
| Universal Skid Steer Compatible  | Standard                                                            |              |               |               |
| Crossover Relief Value           | Standard                                                            |              |               |               |
| Wing Thickness                   | 3/8" Grade 50                                                       |              |               |               |
| Wing Wear Shoes                  | 1" High Density Urethane                                            |              |               |               |
| Wing Hinge Pin                   | 1-3/8" x 21-1/2"                                                    |              |               |               |
| Wing Cylinder                    | 1-1/2" x 6" Nitro Steel - Double Acting                             |              |               |               |
| PowerWing Upgrade                | Optional                                                            |              |               |               |

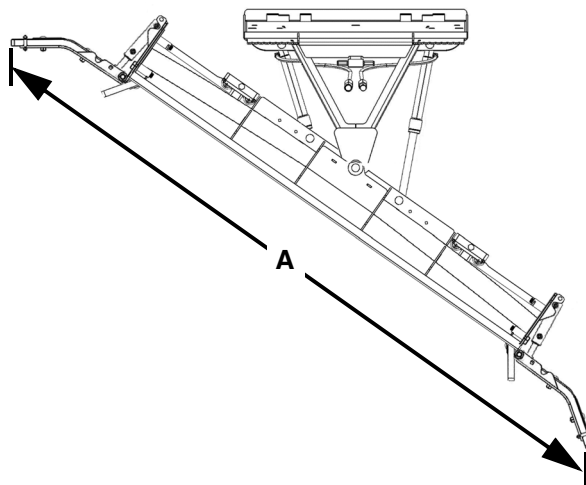
## Dimensions (QP Models)



| DESCRIPTION                    | QP-102         | QP-114         | QP-126         | QP-138         |
|--------------------------------|----------------|----------------|----------------|----------------|
| Blade Width (A)                | 7.0'           | 8.0'           | 9.0'           | 10.0'          |
| Width In Pusher Position (B)   | 102" (8' 6")   | 114" (9' 6")   | 126" (10' 6")  | 138" (11' 6")  |
| Maximum Width (C)              | 130" (10' 10") | 142" (11' 10") | 154" (12' 10") | 166" (13' 10") |
| Width In Backdrag Position (D) | 102" (8' 6")   | 114" (9' 6")   | 126" (10' 6")  | 138" (11' 6")  |
| Blade Height (E)               | 30.7"          | 30.7"          | 30.7"          | 30.7"          |
| Overall Width (F)              | 101"           | 113"           | 125"           | 137"           |

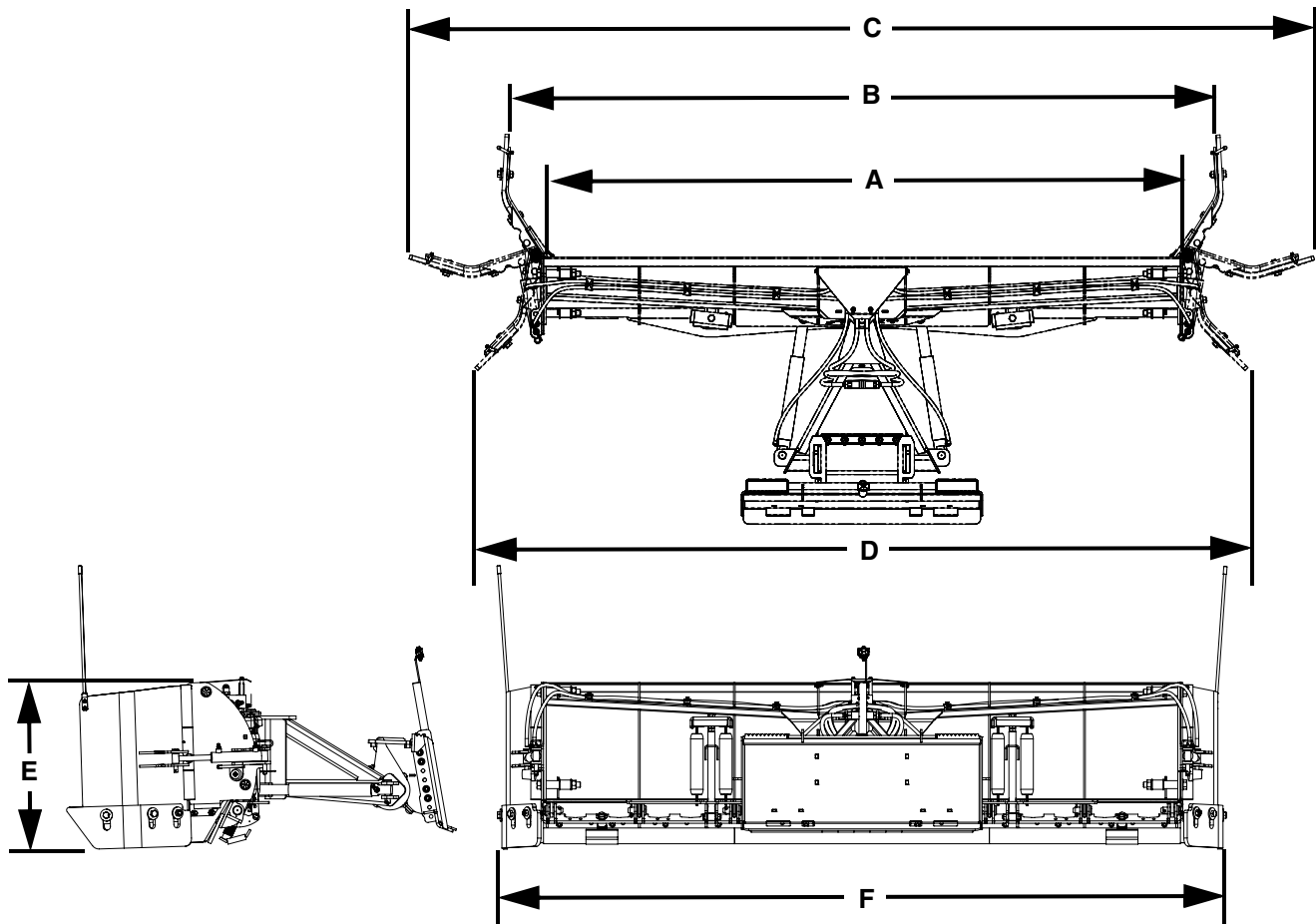


## Attachment Specifications (QPXT Models)



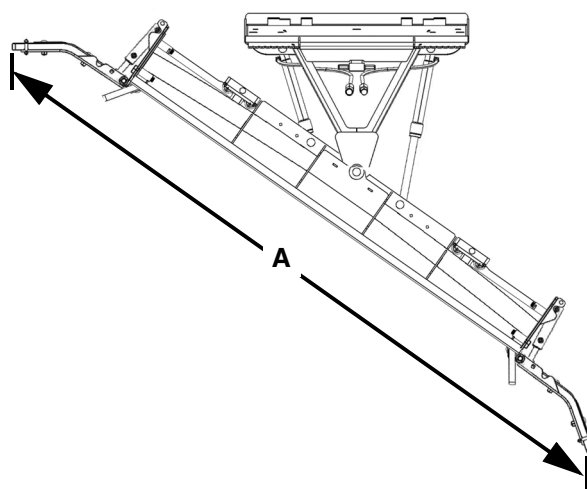
| DESCRIPTION                            | FOR MACHINES WEIGHING 10,000 TO 15,000 LBS.                            |               |               |
|----------------------------------------|------------------------------------------------------------------------|---------------|---------------|
|                                        | QPXT-126                                                               | QPXT-138      | QPXT-150      |
| Blade Width                            | 9.0'                                                                   | 10.0'         | 11.0'         |
| Clearing Width at Wide Angle (A)       | 126" (10' 6")                                                          | 136" (11' 4") | 146" (12' 2") |
| Blade Height                           | 30.7"                                                                  | 30.7"         | 30.7"         |
| Weight (lbs.)                          | 1,464                                                                  | 1,540         | 1,575         |
| Moldboard Gauge                        | 10 ga.                                                                 | 10 ga.        | 10 ga.        |
| Trip Springs                           | 4 Ext.                                                                 | 4 Ext.        | 4 Ext.        |
| Wear Shoes                             | Opt.                                                                   | Opt.          | Opt.          |
| Active Edge                            | Opt.                                                                   | Opt.          | Opt.          |
| Moldboard Cutting Edge                 | 5/8" x 6" Top Punch High Carbon Standard,<br>(Carbide Insert Optional) |               |               |
| Angle Rams                             | 2" x 13" Nitro Steel UltraMAX                                          |               |               |
| Vertical Ribs                          | 6                                                                      | 8             | 8             |
| Moldboard Radius                       | 14"                                                                    | 14"           | 14"           |
| Full Down Pressure                     | Yes                                                                    | Yes           | Yes           |
| Universal Skid Steer Compatible        | Standard                                                               |               |               |
| Crossover Relief Value                 | Standard                                                               |               |               |
| Wing Thickness                         | 3/8" Grade 50                                                          |               |               |
| Wing Wear Shoes (AR400 Floating Steel) | 1" High Density Urethane                                               |               |               |
| Wing Hinge Pin                         | 1-3/8" x 21-1/2"                                                       |               |               |
| Wing Cylinder                          | 1-1/2" x 6" Nitro Steel - Double Acting                                |               |               |
| PowerWing Upgrade                      | Optional                                                               |               |               |

## Dimensions (QPXT Models)



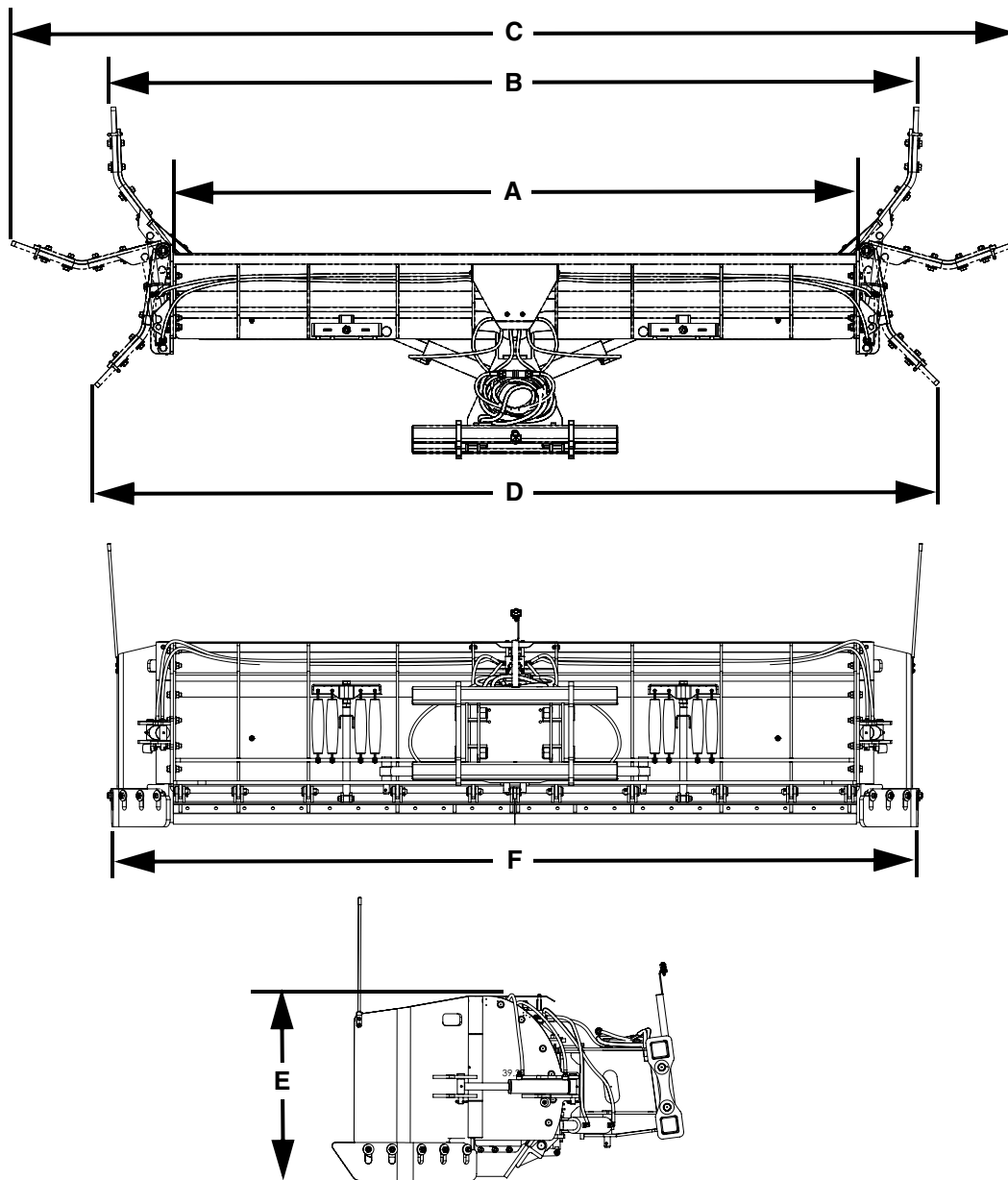
| DESCRIPTION                    | QPXT-126       | QPXT-138       | QPXT-150       |
|--------------------------------|----------------|----------------|----------------|
| Blade Width (A)                | 9.0'           | 10.0'          | 11.0'          |
| Width In Pusher Position (B)   | 126" (10' 6")  | 138" (11' 6")  | 150" (12' 6")  |
| Maximum Width (C)              | 154" (12' 10") | 166" (13' 10") | 178" (14' 10") |
| Width In Backdrag Position (D) | 126" (10' 6")  | 138" (11' 6")  | 150" (12' 6")  |
| Blade Height (E)               | 30.7"          | 30.7"          | 30.7"          |
| Overall Width (F)              | 125"           | 137"           | 149"           |

## Attachment Specifications (QPHD Models)



| DESCRIPTION                      | FOR MACHINES WEIGHING 15,000 TO 30,000 LBS.                           |               |
|----------------------------------|-----------------------------------------------------------------------|---------------|
|                                  | QPHD-146                                                              | QPHD-170      |
| Blade Width                      | 10.0'                                                                 | 12.0'         |
| Clearing Width at Wide Angle (A) | 144" (12')                                                            | 164" (13' 8") |
| Blade Height                     | 38"                                                                   | 38"           |
| Weight (lbs.)                    | 2,995                                                                 | 3,385         |
| Moldboard Gauge                  | 10 ga.                                                                | 10 ga.        |
| Trip Springs                     | 8 Ext.                                                                | 8 Ext.        |
| Wear Shoes                       | N/A                                                                   | N/A           |
| Moldboard Cutting Edge           | 3/4" x 8" Top Punch High Carbon Standard<br>(Carbide Insert Optional) |               |
| Angle Rams                       | 3" x 13" D/A Nitro Steel-Double Acting Cylinder                       |               |
| Vertical Ribs                    | 8                                                                     | 10            |
| Moldboard Radius                 | 19"                                                                   | 19"           |
| Full Down Pressure               | Yes                                                                   | Yes           |
| Universal Skid Steer Compatible  | N/A                                                                   |               |
| Crossover Relief Value           | Standard                                                              |               |
| Wing Thickness                   | 5/8" Grade 50                                                         |               |
| Wing Wear Shoes                  | 1" x 8" AR400 Floating Steel                                          |               |
| Wing Hinge Pin                   | 1-7/8" x 29-3/4"                                                      |               |
| Wing Cylinder                    | 2-1/2" x 8" Double Acting Cylinder                                    |               |
| PowerWing Upgrade                | Optional                                                              |               |

## Dimensions (QPHD Models)



| DESCRIPTION                    | QPHD-146      | QPHD-170      |
|--------------------------------|---------------|---------------|
| Blade Width (A)                | 10'           | 12'           |
| Width In Pusher Position (B)   | 146" (12' 2") | 170" (14' 2") |
| Maximum Width (C)              | 176" (14' 8") | 200" (16' 8") |
| Width In Backdrag Position (D) | 146" (12' 2") | 170" (14' 2") |
| Blade Height (E)               | 38"           | 38"           |
| Overall Width (F)              | 148"          | 172"          |

# Torque Specifications

## Standard Hardware And Lock Nuts

| <b>BOLT TYPE</b>    | <b>SAE GRADE 5</b>        |                          | <b>SAE GRADE 8</b>        |                           | <b>LOCK NUTS</b>          |                            |                          |                          |
|---------------------|---------------------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------------------|--------------------------|--------------------------|
| <b>Nominal Size</b> | <b>Plated or Unplated</b> | <b>Plated W / ZnCr</b>   | <b>Plated or Unplated</b> | <b>Plated W / ZnCr</b>    | <b>Plated or Unplated</b> | <b>Plated W / ZnCr</b>     | <b>W / Grade 5 Bolt</b>  | <b>W / Grade 8 Bolt</b>  |
|                     | <b>Silver</b>             | <b>Gold</b>              | <b>Silver</b>             | <b>Gold</b>               | <b>Silver</b>             | <b>Gold</b>                |                          |                          |
| 1/4                 | 55 in / lb<br>(6.2 N•m)   | 72 in / lb<br>(8.1 N•m)  | 86 in / lb<br>(9.7 N•m)   | 112 in / lb<br>(12.6 N•m) | 121 in / lb<br>(13.6 N•m) | 157 in / lb<br>(17.7 N•m)  | 61 in / lb<br>(6.9 N•m)  | 86 in / lb<br>(9.8 N•m)  |
| 5/16                | 115 in / lb<br>(13 N•m)   | 149 in / lb<br>(17 N•m)  | 178 in / lb<br>(20 N•m)   | 229 in / lb<br>(26 N•m)   | 250 in / lb<br>(28 N•m)   | 325 in / lb<br>(37 N•m)    | 125 in / lb<br>(14 N•m)  | 176 in / lb<br>(20 N•m)  |
| 3/8                 | 17 ft / lb<br>(23 N•m)    | 22 ft / lb<br>(30 N•m)   | 26 ft / lb<br>(35 N•m)    | 34 ft / lb<br>(46 N•m)    | 37 ft / lb<br>(50 N•m)    | 48 ft / lb<br>(65 N•m)     | 19 ft / lb<br>(26 N•m)   | 26 ft / lb<br>(35 N•m)   |
| 7/16                | 27 ft / lb<br>(37 N•m)    | 35 ft / lb<br>(47 N•m)   | 42 ft / lb<br>(57 N•m)    | 54 ft / lb<br>(73 N•m)    | 59 ft / lb<br>(80 N•m)    | 77 ft / lb<br>(104 N•m)    | 30 ft / lb<br>(41 N•m)   | 42 ft / lb<br>(57 N•m)   |
| 1/2                 | 42 ft / lb<br>(57 N•m)    | 54 ft / lb<br>(73 N•m)   | 64 ft / lb<br>(87 N•m)    | 83 ft / lb<br>(113 N•m)   | 91 ft / lb<br>(123 N•m)   | 117 ft / lb<br>(159 N•m)   | 45 ft / lb<br>(61 N•m)   | 64 ft / lb<br>(88 N•m)   |
| 9/16                | 60 ft / lb<br>(81 N•m)    | 77 ft / lb<br>(104 N•m)  | 92 ft / lb<br>(125 N•m)   | 120 ft / lb<br>(163 N•m)  | 130 ft / lb<br>(176 N•m)  | 169 ft / lb<br>(229 N•m)   | 65 ft / lb<br>(88 N•m)   | 92 ft / lb<br>(125 N•m)  |
| 5/8                 | 83 ft / lb<br>(112 N•m)   | 107 ft / lb<br>(145 N•m) | 128 ft / lb<br>(174 N•m)  | 165 ft / lb<br>(224 N•m)  | 180 ft / lb<br>(244 N•m)  | 233 ft / lb<br>(316 N•m)   | 90 ft / lb<br>(122 N•m)  | 127 ft / lb<br>(172 N•m) |
| 3/4                 | 146 ft / lb<br>(198 N•m)  | 189 ft / lb<br>(256 N•m) | 226 ft / lb<br>(306 N•m)  | 293 ft / lb<br>(397 N•m)  | 319 ft / lb<br>(432 N•m)  | 413 ft / lb<br>(560 N•m)   | 160 ft / lb<br>(217 N•m) | 226 ft / lb<br>(306 N•m) |
| 7/8                 | 142 ft / lb<br>(193 N•m)  | 183 ft / lb<br>(248 N•m) | 365 ft / lb<br>(495 N•m)  | 473 ft / lb<br>(641 N•m)  | 515 ft / lb<br>(698 N•m)  | 667 ft / lb<br>(904 N•m)   | 258 ft / lb<br>(350 N•m) | 364 ft / lb<br>(494 N•m) |
| 1                   | 213 ft / lb<br>(289 N•m)  | 275 ft / lb<br>(373 N•m) | 547 ft / lb<br>(742 N•m)  | 708 ft / lb<br>(960 N•m)  | 773 ft / lb<br>(1048 N•m) | 1000 ft / lb<br>(1356 N•m) | 386 ft / lb<br>(523 N•m) | 545 ft / lb<br>(739 N•m) |







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