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# **Parts & Service Manual for Double Function Patrol Wing**



**Monroe Snow & Ice Control**  
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## General Information

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- Use only Monroe Truck Equipment O.E.M. replacement parts. Failure to do so will void the warranty.
- Location descriptions are noted in direction of travel (i.e. front, rear, left and right).
- Delivery of replacement parts is subject to our sales delivery terms.
- Replacement parts listed in this manual reflect the most common items for this product. If you do not find the part you require, please call your distributor.
- Monroe Truck Equipment reserves the right to make revisions or alterations to the parts manual at any time.

## How to Order Parts

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To order or inquire about replacement parts, please contact the distributor or store that the product was purchased through. To speed the information flow, please have the following information available:

- Model Number
- Serial Number
- Part Number and/or Description of the Part
- Quantity Needed

For further information about Monroe Truck Equipment replacement parts, please call 877-834-9049.

## Return Policy

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Merchandise returned to Monroe Truck Equipment must have a Warranty Service Request (WSR) form filled out completely and signed by authorized personnel.

To get your WSR form for whole goods, call Snow & Ice Sales at 800-880-0109.

To get your WSR form for replacement parts, call Snow & Ice Parts at 877-834-9049.

All returned items are subject to a 15% restocking fee and ***must be sent freight pre-paid.***

# Safety Instructions

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**Warning:** Before working under the vehicle or around the wing, lower the moldboard to the ground, shut off the truck engine and remove the key from the ignition. Prevent accidental startup and operation of the wing to avoid personal injury.

**Warning:** Accidental lowering of the wing when driving or when working around the vehicle may cause death, severe injury, and property damage. When the wing is not being used actively for clearing snow, raise it all the way and connect the safety restraint chain(s) that prevent lowering. Never transport the wing at highway speeds unless the wing is raised and chained up.

- Locate and read all safety decals on the unit before operating the equipment. Familiarize yourself with all potential hazards in operating this equipment.
- Read all installation, operation, and maintenance instructions before operating the equipment.
- Keep all provided shields, covers, and guards in place during operation of the unit.
- Stay away from the wing when it is moving. Stay away from pinch points created by the moving wing components.
- Never work on or around the wing unless the vehicle is turned off and the ignition key is removed. Follow lock-out/tag procedures for working on hazardous equipment.
- Lower the wing to the ground before working on any of its components.
- When the wing is raised and not in use, always attach the safety restraint chains to prevent accidental and unexpected lowering of the wing.
- Be aware of the extra vehicle width created by the wing installation. Allow for the extra width when driving in traffic, passing parked vehicles, and entering buildings through overhead doors.
- When installing a new cutting edge, always “clip” the lower in-board corner of the edge to prevent the corner from catching on the pavement if the wing toe is set too low. If the square corner of a cutting edge catches the pavement, the wing can be thrown up and into the side of the vehicle cab, causing serious damage.
- Watch for hydraulic fluid leaks at fittings and hoses. High-pressure fluid leaks can

## Safety Instructions *(Continued)*

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- penetrate skin and cause severe injury.
- Do not climb or walk on the wing or its mounting components, especially when the unit is wet or icy.
- If the wing needs repair or the controls are not functioning properly, repair the unit immediately. Do not continue to operate a malfunctioning unit—further and more serious damage may occur.
- Do not disassemble spring-loaded components such as trip edges and push arms unless you have the correct tools and are trained in these tasks. Pre-loaded springs are under extreme compression and can cause severe injury if the spring force is released suddenly and unexpectedly.
- If the wing accidentally impacts an object during use, stop immediately and inspect all components. Look for bent and broken components. Do not continue to operate with a severely damaged wing.
- When removing and storing a wing for summer, locate it away from high traffic areas and block it securely so it cannot fall or be pushed over.

## Welding Guidelines

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- Structural welds may be defined by a Weld Procedure Specification (WPS) document. Where applicable, this document will be included in the installation instructions for Snow & Ice products. Where a WPS is provided, welds are to be performed following the specifications and instructions on the WPS.
- Where a WPS applies, the person performing the welding should be qualified (tested) to the procedure on the WPS. This is to verify that the person can successfully perform the required weld.
- If a WPS is not provided, follow the general guidelines given below.
- For stick (rod) welding (SMAW) use low-hydrogen rods such as AWS A5.1, E7018. Welding rods must be stored in accordance with AWS D1.1, Section 5.3.2.1 to prevent absorption of moisture and other contaminants.
- For wire (gas shield) welding (GMAW) use AWS A5.18, ER70S-6, F6 wire. Wire diameter must be 0.035" or 0.045 as dictated by the size of the weld or as indicated on the applicable WPS.

## **Welding Guidelines** *(Continued)*

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- All welds must have adequate penetration and fillet size to obtain maximum strength of the weld. Cold lap welds and undercutting are not acceptable. Unacceptable welds must be ground out and re-welded. Typically, 3/8" weld fillets are required, unless a WPS states differently.
- Verify that the welding machine being used is working properly and that the volt/amp gauges are accurate when making settings based on a WPS.
- Components to be welded must be clean and dry at the weld area, with paint, rust, and oil removed.
- Unless otherwise directed on a WPS, all parts to be welded must be at least 50° F before welding is performed.
- When welding cast parts such as pipe brace balls, the parts must be heated to 150° F for several minutes to drive out any moisture.
- When welding to large parts that will act as a heat sink, pre-heating of the weld area may be required to insure equal penetration on both parts. Refer to the applicable WPS or to AWS guidelines if available. Before heating parts, check for wiring, hoses, and other components that could be damaged by the heat. Remove or move these components before applying heat to the area.
- Disconnect all battery cables (both positive and ground) before welding to help prevent damage to electronic components on the chassis.
- Always be sure the welder has a good ground contact as close to the weld point as possible. Remove dirt, paint, and grease from the area where the ground will be connected. This will help prevent damage to electronic components on the chassis.
- Never "quench" hot welds or otherwise accelerate cooling. Allow all welds to cool in still air.
- Welding on MTE products for any reason other than instructed installation procedures is prohibited and may void the warranty on the product.
- Never cut, weld, or grind directly on a chassis frame. Do not drill additional holes through a chassis frame unless directed to do so in the installation instructions.
- This information applies only to products and installation instructions where welding is instructed and allowed. Use of welding where threaded fasteners are indicated in the installation instructions may void the warranty on the product and/or the OEM chassis components.

# Maintenance Instructions

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## ***In Season:***

**Warning:** Before working under the vehicle or around the wing, lower the moldboard to the ground, shut off the truck engine, and remove the keys from the ignition. Prevent accidental startup and operation of the wing to avoid personal injury.

**Warning:** Accidental lowering of the wing when driving or when working around the vehicle may cause death, severe injury, and property damage. When the wing is not being used actively for clearing snow, raise it all the way and connect the safety restraint chain(s) that prevent lowering. Never transport the wing at highway speeds unless the wing is raised and chained up.

- Re-torque all fasteners after the first 8 hours of use.
- Check for loose, damaged, and missing fasteners before each use.
- Inspect and re-torque all fasteners at the beginning of each plowing season.
- Lubricate grease fittings every 10 hours during normal use and more often during heavy use.
- For open slides on wing posts, apply a coating of grease as required.
- Tighten all hydraulic fittings after the first 8 hours of use.
- Inspect hydraulic fittings for leaks every week and tighten as required. If a hydraulic fitting continues to leak after being tightened, replace the fitting as soon as possible.
- Check the cutting edge for wear after each use. Replace the cutting edge when it wears to within ½" of the moldboard.
- When installing a new cutting edge, "clip" the lower in-board corner as directed in this instruction manual to prevent catching on pavement.
- Check the operation of the wing before each use.
  - Verify that the wing has full up and down travel. Check all functions: heel, toe, raise/lower, and benching function (if applicable).
  - Investigate the cause of any binding or sticking in the wing travel or the failure of the wing to raise or lower fully.
  - If the hydraulic valves are operated by cables, verify that the lever(s) and cables operate smoothly and easily, and that the levers snap back to center when released.
- Inspect the hydraulic hoses and any electrical wiring for wear or damage every month. Check hoses and wiring attached to moving components closely.
- At the end of each storm event, pressure-wash the wing and its components, especially any horizontal surfaces that can hold road salt and other corrosive chemicals. Removing salt and other chemicals regularly will prolong the life of all components.

# Maintenance Instructions *(Continued)*

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## ***In Season (Continued):***

- Due to the harsh operating conditions of a wing, regular inspection and maintenance is critical to safe operation and durability of the wing. The owner or end user of the wing must create and enforce the use of an inspection and maintenance schedule.
- If the wing is subjected to serious impact against another object, inspect it closely for bent or broken parts.

## ***Off Season:***

- At the end of the plowing season, the wing moldboard should be removed. For some installations, the mounting brackets and cross tube(s) may also be removed.
- Inspect the moldboard and the mounting components on the truck before removal. Make any required repairs immediately so that the wing is ready to be reinstalled and used at the start of the next winter season.
- Before disconnecting any hydraulic hoses, lower the wing to the ground. If the wing lowers unexpectedly, it can cause severe injury to feet and hands.
- When quick-disconnects are separated, cover and cap the ends to prevent the entry of contaminants into the hydraulic system and possible impact damage to the ends.
- If there are no quick disconnects and hoses are removed from fittings, cap or plug all open hydraulic fittings.
- The exposed areas on hydraulic cylinder rams should be covered with grease during the storage period. Remove the grease before returning the wing to service.
- If possible, store the wing and components indoors to reduce rusting and UV damage to hoses.
- Keep all loose parts with the wing so they are readily available for re-installation.
- When reinstalling the wing, replace any damaged fasteners and follow the fastener torquing guidelines for in-season use.

# Torque Chart

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<b>SIZE</b>	 <b>GRADE 2</b>	 <b>GRADE 5</b>	 <b>GRADE 8</b>
1/4-20	50 IN-LBS	75 IN-LBS	9 FT-LBS
3/8-16	15 FT-LBS	23 FT-LBS	35 FT-LBS
1/2-13	35 FT-LBS	55 FT-LBS	80 FT-LBS
5/8-11	75 FT-LBS	110 FT-LBS	170 FT-LBS
3/4-10	130 FT-LBS	200 FT-LBS	280 FT-LBS
1-8	190 FT-LBS	480 FT-LBS	680 FT-LBS
1 1/4-7	380 FT-LBS	840 FT-LBS	1,360 FT-LBS

# Installation Instructions - Side Plates

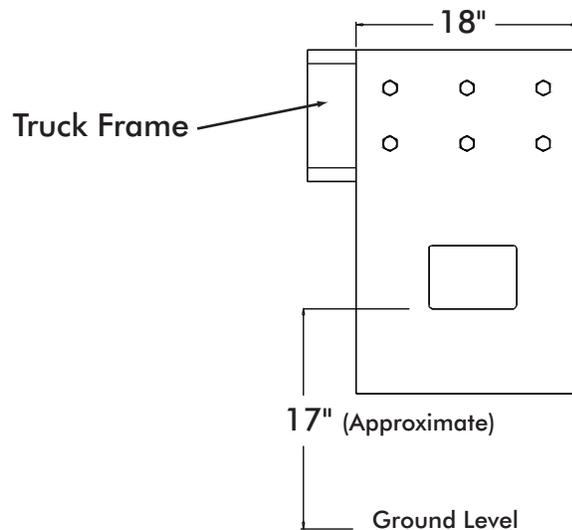
*These mounting instructions are intended as a guide to aid you in the installation of your equipment. All dimensions noted in the instructions are approximate and may vary due to: make and model of chassis, tire size, type of suspension, spring deflection, customer preference and interference caused by immovable attachments such as a transfer case. Ideally, the wing should be mounted to get full usage of the cutting edge without wearing into the moldboard. Monroe Truck Equipment assumes no responsibility for improper installation, unless installed at a Monroe Truck Equipment location. Mounting location should be discussed by the end-user and the installer prior to installation in order to achieve the best possible installation.*



This safety symbol is a reminder to follow all safety messages and precautions involved when installing or operating this equipment. It means to be **CAREFUL, ALERT** and **SAFETY CONSCIOUS!**

## SIDE PLATE INSTALLATION

1. Clamp side plates to the truck frame as shown in diagram below. Keep the plates square and level to the truck frame, not to the ground.
2. Drill (6)  $2\frac{1}{32}$ " holes through each side plate and the truck frame. Apply paint or rust inhibitor to drilled holes.
3. Fasten each side plate with  $\frac{5}{8}$ " bolts, nuts & hardened washers. Tighten bolts to specifications. If there is any excess length in the truck frame, it can be trimmed with a cutting torch, if needed.



# Installation Instructions - Wing Post

**NOTE: Clamp equipment in place to insure a proper fit before permanent installation.**

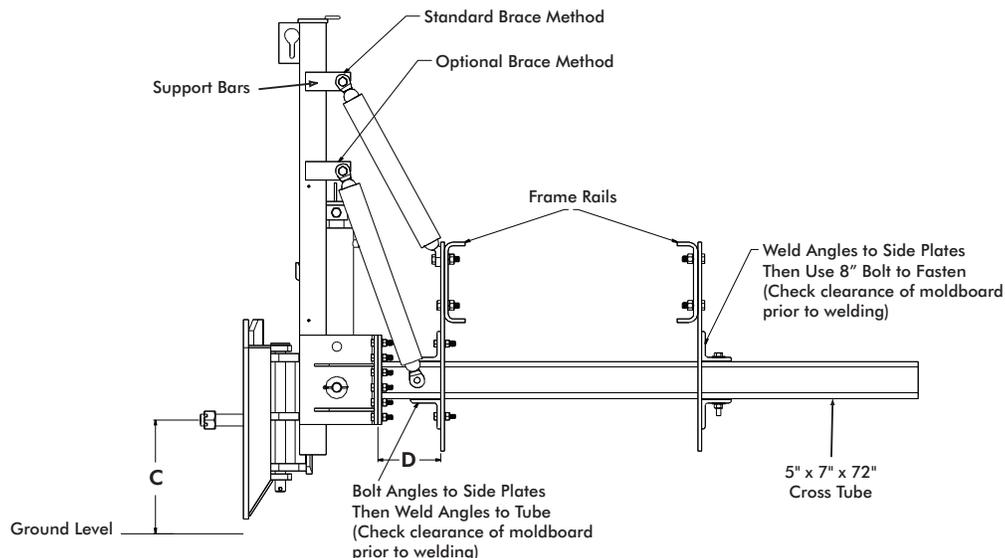
## WING POST INSTALLATION

1. The lift cylinder on the wing post should be fully collapsed and installed in the lower hole location. Apply anti-seize lubricant to the pin that holds the cylinder in place.
2. Insert the 1½" x 6½" wing mounting bolt into the lower hole of the mounting block. Apply anti-seize lubricant to the mounting bolt.
3. Connect the mounting block assembly to the wing post slider using the 1½" x 19½" pin provided with the post assembly. Tighten the ¼" bolt & lock nut to hold the pin in place.
4. Using an electric grinder, chamfer the edges on one end of the 5" x 7" x 72" cross tube. This chamfered end will be on the post side of the truck and will help to obtain a good weld to the mounting plate on the wing post assembly.
5. Measure the wing moldboard assembly from the bottom edge of the cutting edge mounting angle to the center of the pivot hole. This amount will be the distance from the ground to the center of the 1½" mounting bolt on the mounting block assembly (measurement "C" on diagram below). This measurement is considered to be "grade level". **NOTE: Check with user if wing moldboard should be installed grade level, below grade or above grade.**



**CAUTION! Suspension spring deflection may occur.**

6. Lift the wing post to the correct height with a proper lifting device. Keep the wing post square and level to the truck, not the ground.
7. Tack weld the mounting plate to the cross tube. Double check the measurement before welding. Gussets may be added to strengthen this connection. Remove the assembly and weld completely. **NOTE: Be sure the surfaces being welded are clean of paint, grease and/or dirt.**

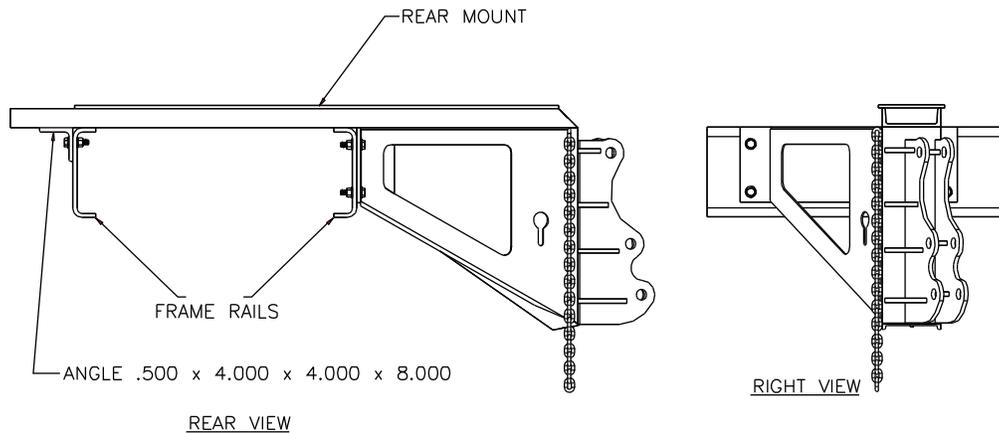


# Installation Instructions - Rear Mount

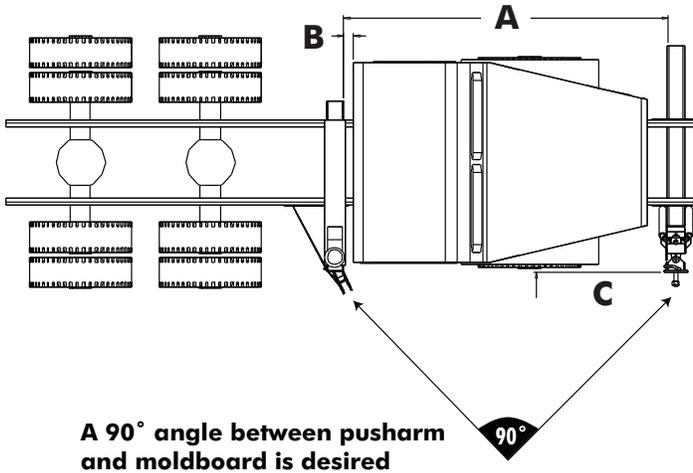
**NOTE: Clamp equipment in place to insure a proper fit before permanent installation.**

## REAR MOUNT INSTALLATION

1. Refer to diagram on following page to determine where the rear mount will be installed. Placement may vary due to the location of the exhaust pipe or other components already on the truck. Some of the components may need to be moved to create space for the rear mount.
2. Set the rear mount on the truck frame, transfer the hole locations to the rear mount and drill so the bolts can be returned to the same holes. If no bolts were removed, drill where best suited.
3. With the rear mount in the correct position, attach a  $\frac{1}{2}$ " x 4" x 4" x 8" angle (not included) as shown in diagram below. Drill (3)  $1\frac{1}{16}$ " holes through the mounting angle and the truck frame. Fasten with  $\frac{5}{8}$ " bolts, top lock nuts & hardened washers. Weld the other side of the angle to the rear mount.



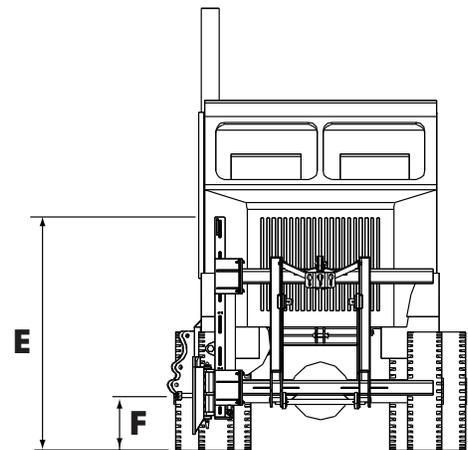
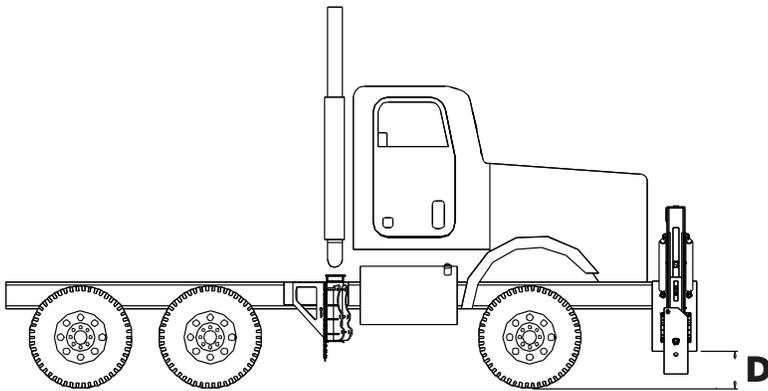
# Installation Instructions - Rear Mount *(Continued)*



**WARNING!** When clamping post & plow hitch to front frame, plow must not hit the wing & the wing must pick up snow discharged from plow.

**NOTE:** Hood may not tilt & headlight may be covered. Power slide or tilt plus auxiliary lights may be necessary.

A 90° angle between pusharm and moldboard is desired



A	Will Vary	These measurements will vary depending upon moldboard length and desired clear path
B	Will Vary	
C	2" Minimum	Allow 2" minimum clearance between widest point of truck cab or tire & moldboard mounting block. With wing in up position, turn wheels hard right to check clearance.
D	11" Average	Depending on desired float of above or below grade of road
E	Fixed Moldboard = 80.625" Trip Edge Moldboard = 89.625"	
F	Fixed Moldboard = 16" Trip Edge Moldboard = 19"	

# Installation Instructions - Moldboard

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## MOLDBOARD INSTALLATION

1. Connect the moldboard to the mounting block on the front post. The 1½" mounting bolt should already be in the mounting block. Lift the moldboard with a proper lifting device and line up the pivot hole with the mounting bolt. Secure the moldboard with a 1½" washer and slotted nut. Tighten the nut just until snug, to allow the moldboard to pivot. Secure the nut with a ⅜" x 2" cotter pin. A lubricant is recommended between moldboard and mounting block.
2. Connect the lower pusharm bracket (and upper bracket if upper pusharm is being installed) to the moldboard with (3) ⅜" x 2½" bolts and top lock nuts. Placement of the pusharm mount will vary. **A 90° angle between pusharm and moldboard is best, as shown in diagram on page 12.**
3. Connect the pusharm to the rear mount and the wing moldboard using the pins provided with the pusharm assembly.
4. When connecting the wire rope cable to wing moldboard, care must be taken when adjusting the length of the wire rope so that the toe of the moldboard lifts slightly before the heel of the moldboard. This must be done to prevent the toe from digging into the pavement.
5. Plumb the system according to the diagram.
6. Start the truck engine and raise the moldboard to the stored position. Lift slowly to avoid hitting cab or mirrors. Turn the truck wheels all the way to the right and check the clearance between the tire and the moldboard. There must be a minimum of 2" of clearance. **NOTE: This is a critical step and must be performed prior to securing the front cross tube to the side plates.**

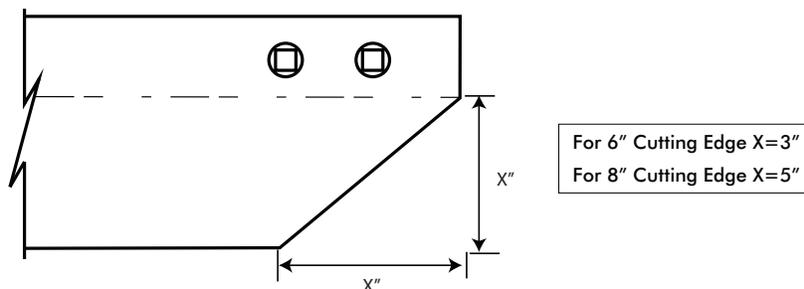


**CAUTION: Toe of cutting edge must be rounded off.**

# Installation Instructions - New Cutting Edge

## CUTTING EDGE INSTALLATION - New Wing Assembly

1. Inspect the mounting area for the cutting edge. Look for corrosion, paint buildup, dirt, bending and impact damage. Clean off dirt and surface corrosion and check the mounting face with a straight edge. A bent or damaged mounting surface will make it difficult to keep the cutting edge fasteners tight, and in severe cases, may cause wing chatter.
2. Severe damage to the mounting surface must be repaired before a new cutting edge is installed and the wing is returned to service.
3. Use a scraper and light sanding to remove all dirt and corrosion from the mounting surface. The new cutting edge must rest flat against the mounting surface for proper clamping force when the fasteners are tightened.
4. Check the mounting face of the new cutting edge for dirt, corrosion, paint and other contamination. Clean any contamination off the cutting edge mounting face.
5. Hold the cutting edge up to the moldboard. Make sure it fits properly and sits flat against the moldboard. Make sure all the fasteners holes line up between the cutting edge and the moldboard.
6. Mark the inboard end of the cutting edge and cut a bevel according to the diagram below. This prevents the corner of the cutting edge from catching on pavement and kicking the moldboard up and into the cab or body.



7. **NOTE: The required installation direction for carriage-type bolts and insert fasteners.** Start the nuts onto the bolt threads. Flanged top lock (clincher) nuts are recommended. Standard top lock nuts with hardened flat washers are also acceptable. Standard nuts with split lock washers are supplied with some installation but are not recommended. Do not use nylon-insert type lock nuts. Non-hardening (blue) thread locker is recommended for any fastener used.
8. Snug all the nuts down just enough to hold the cutting edge in the proper position.
9. Starting at the middle of the cutting edge and working outward, tighten the fasteners with a calibrated torque wrench. Use the recommended torque for Grade 8 bolts and the type of nut being used.

# Installation Instructions - Replacement Cutting Edge

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## CUTTING EDGE INSTALLATION - Replacing Old Cutting Edge

1. Raise the wing high enough to clear the ground and block it up.



**CAUTION! Do not work under the wing if it is only supported by the hydraulic system. Use blocks!**

2. Inspect the old cutting edge for uneven wear or damage that could indicate other problems with or improper operation of the wing.
3. Remove the old cutting edge fasteners. The old fasteners will typically be corroded and/or damaged. If necessary, cut off the fasteners with a torch. Be careful not to damage the moldboard or trip edge.
4. Never re-use the old fasteners. Make sure you have new fasteners before removing the old cutting edge. Fasteners must be Grade 8.
5. With the old cutting edge removed, inspect the mounting area. Look for severe corrosion, bending and impact damage. Clean off dirt and surface corrosion and check the mounting face with a straight edge. A bent or damaged mounting surface will make it difficult to keep the cutting edge fasteners tight and in severe cases, may cause wing chatter.
6. Severe damage to the mounting surface must be repaired before a new cutting edge is installed and the wing is returned to service. In some cases the moldboard or trip edge may need to be replaced.
7. Use a scraper and light sanding to remove all dirt and corrosion from the mounting surface. The new cutting edge must rest flat against the mounting surface for proper clamping force when the fasteners are tightened.
8. Check the mounting face of the new cutting edge for dirt, corrosion, paint and other contamination. Clean any contamination off the cutting edge mounting face.
9. Hold the cutting edge up to the moldboard. Make sure it fits properly and sits flat against the moldboard. Make sure all the fastener holes line up between the cutting edge and the moldboard.
10. Mark the inboard end of the cutting edge and cut a bevel according to the diagram on previous page. This prevents the corner of the cutting edge from catching on pavement and kicking the moldboard up and into the cab or body.
11. **NOTE: The required installation direction for carriage-type bolts and insert fasteners.** Start the nuts onto the bolt threads. Flanged top lock (clincher) nuts are recommended. Standard top lock nuts with hardened flat washers are also acceptable. Standard nuts with split lock washers are supplied with some installation but are not recommended. Do not use nylon-insert type lock nuts. Non-hardening (blue) thread locker is recommended for any fastener used.

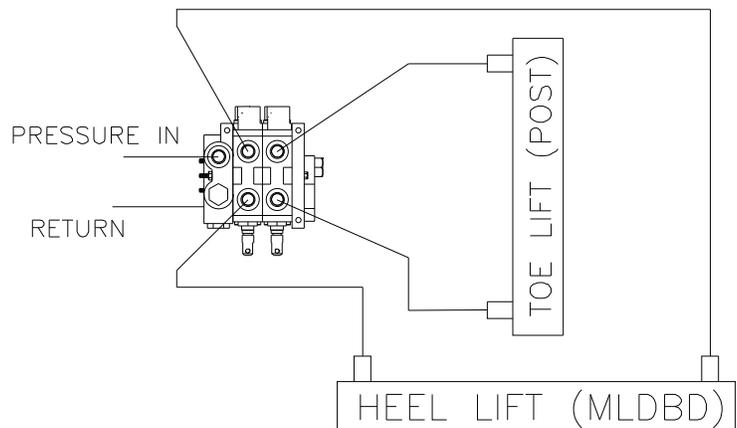
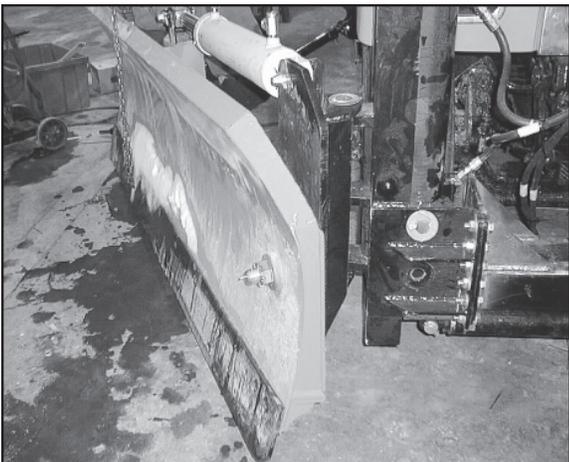
# Installation Instructions - Pipe Brace

12. Snug all the nuts down just enough to hold the cutting edge in the proper position.
13. Starting at the middle of the cutting edge and working outward, tighten the fasteners with a calibrated torque wrench. Use the recommended torque for Grade 8 bolts and the type of nut being used.
14. After the first 4 hours of wing operation with the new cutting edge, tighten the fasteners again.
15. Check the fasteners for condition and tightness prior to, or just after, each storm event where the wing is used.

## PIPE BRACE INSTALLATION

1. Secure the cross tube to the guide angles/side plates as shown in diagram on page 10.
2. Weld the (2) support bars to the post assembly as shown. Attach the (4) pipe ball ends to the support bars and the side plate for standard application. For power slide application, attach to the cross tube. Keep the ends in as straight of a line as possible.
3. Measure the distance between the ball ends from center to center and cut the 2" x 42" pipes to that length. NOTE: Before measuring, be sure the wing post is in the operating (retracted) position. Tack weld the pipes to the ball ends. Remove and weld completely (see for welding guidelines). Reinstall and tighten the bolts.

NOTE: If power slide is required, refer to the Power Slide Installation Instructions.



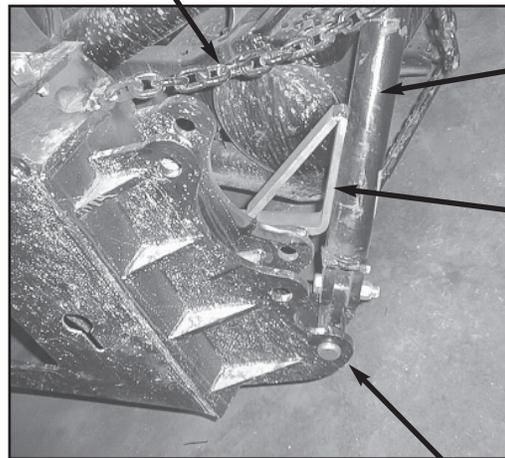
# Installation Instructions - Wing Stop & Safety Chain

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## WING STOP AND SAFETY RESTRAINT CHAIN INSTALLATION

1. With the wing in the raised position, weld the provided chain hook to the pusharm. Find the correct position for the hook by extending the safety restraint chain, that is welded to the rear mount, to the pusharm. Tack weld first and check for a good fit.
2. Build a stop block (not included) on the rear mount.  $\frac{1}{2}$ " thick material is suggested.

Wing Restraint Chain



Push Arm

Stop Block

Rear Mount

# Installation Instructions - OPTIONAL Rear Mount

**NOTE: Clamp equipment in place to insure a proper fit before permanent installation.**

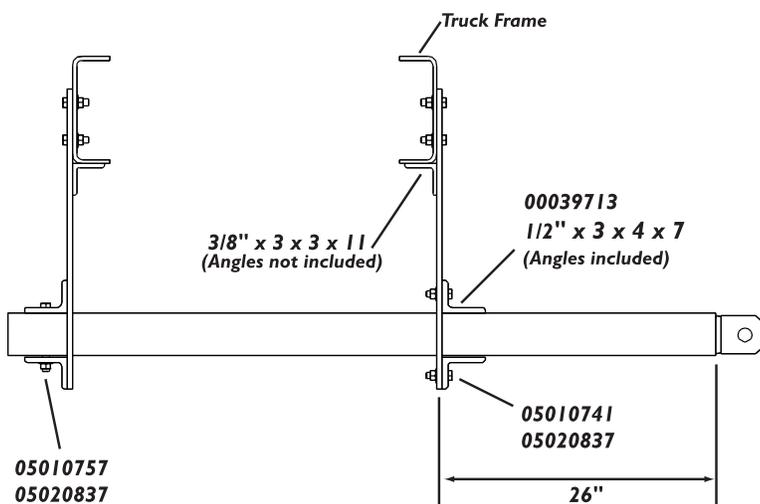
## SIDE PLATE INSTALLATION

1. It may be necessary to relocate vehicle accessories for proper wing installation.
2. Mount side plates according to the diagrams located in the Side Plate Installation Section.
3. Drill (4 to 6)  $2\frac{1}{32}$ " holes through side plates and frame. Fasten side plates with  $\frac{5}{8}$ " bolts, washers & nuts included in the mounting hardware kit.
4. Weld  $\frac{3}{8}$ " x 3" x 2" x 11" support angles (not furnished) behind the side plates where they meet the frame.

## OPTIONAL REAR TUBE INSTALLATION

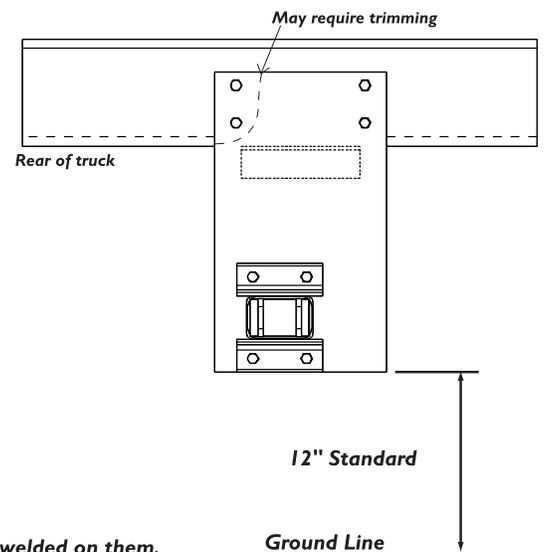
1. Slide tube into slots of side plates.
2. Locate rear tube 26" from face of right rear side plate to the outside edge of tube end plate. See diagram below.
3. Install the (4) furnished  $\frac{1}{2}$ " x 3" x 4" x 7" angles that secure the tubes in place. Right side angles will be bolted to side plate with  $\frac{5}{8}$ " x  $2\frac{1}{2}$ " bolts, top lock nuts & hardened washers and welded to the top and bottom of the tube. Left side angles will be welded to side plate and bolted through the tube with  $\frac{5}{8}$ " x 7" bolts, top lock nuts & hardened washers. This allows the tubes to be removable and easily re-installed.

VIEW FROM REAR OF TRUCK



\*\*Side plates shown without reinforcement bars welded on them.

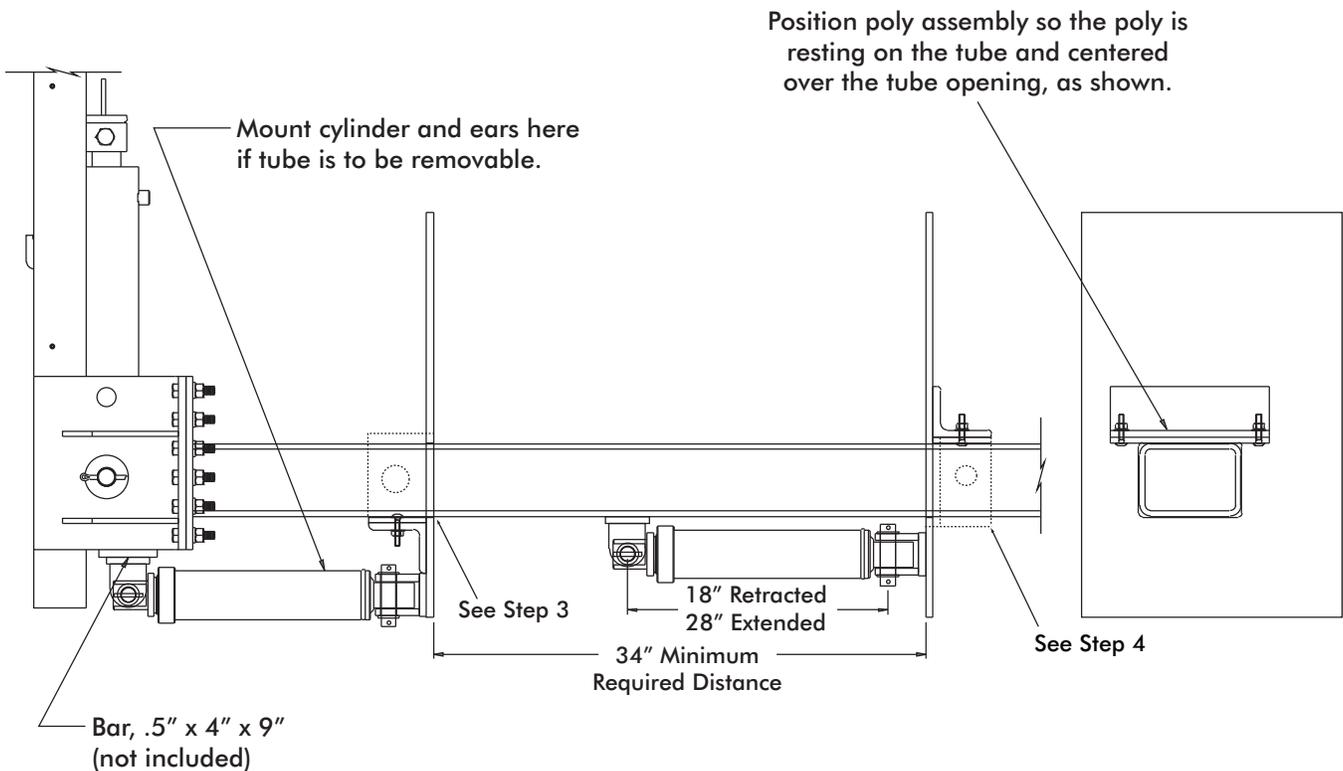
VIEW FROM RIGHT SIDE



# Installation Instructions - OPTIONAL Power Slide

## POWER SLIDE CYLINDER INSTALLATION

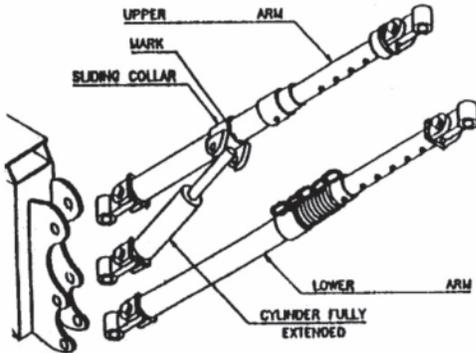
1. Follow the installation instructions for a standard mount. Perform these steps prior to attaching pipe braces.
2. Weld the (2) slide angles, with poly surfaces to the side plates, keeping the angles located as shown below. Weld the clevis ends on the cylinder to the side plate and post or cross tube, depending on your application.
3. Lift the post side of the cross tube  $\frac{1}{16}$ " so the weight of the tube rests on the poly surface and not the cutout in the side plate.
4. To secure the cross tube, attach (4)  $\frac{1}{2}$ " x 4" x 4" x 5" brackets (not included) that will serve as tube guides. Drill  $\frac{1}{16}$ " holes through the brackets and cross tube.  
**NOTE: The cross tube must be in the operating position before drilling.**
5. Secure the assembly with 1" x 9" pins (not included).
6. Plumb the cylinder to the system.
7. Attach pipe braces to the cross tube, not the side plates.
8. Continue with standard installation.



# Installation Instructions - OPTIONAL Power Pusharm

## POWER PUSHARM INSTALLATION

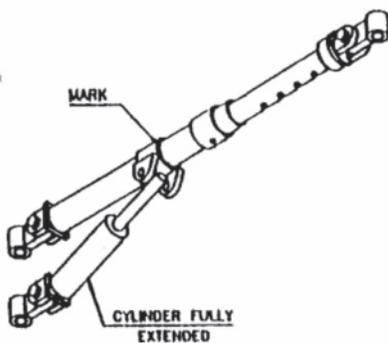
1. Complete the entire installation, including hydraulic system & controls. Unit must be operational. Attach push arms to rear support (or slide) and mount the wing.
2. Connect cylinder as shown below.



3. Using a chain falls or other suitable and safe lifting apparatus, raise the rear of the wing to it's folded position. Raise the front to a carrying position.

**CAUTION!** If the front of the wing is raised high for this setup, the rear may fold too close and strike the mirror or cab. A suitable height for setup purposes would be to raise the front of the wing just above the bottom of the front mast.

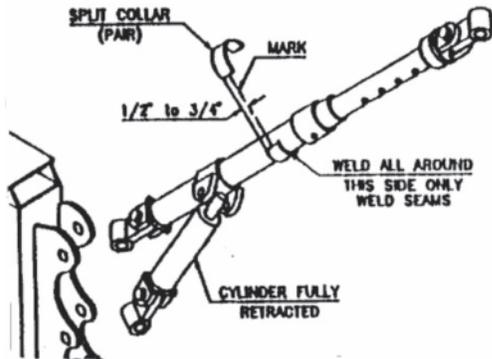
4. Operate the arm cylinder to extend it to it's maximum length. With a welders pencil or paint, mark the upper arm at the outer end of the sliding collar.



# Installation Instructions - OPTIONAL Power Pusharm

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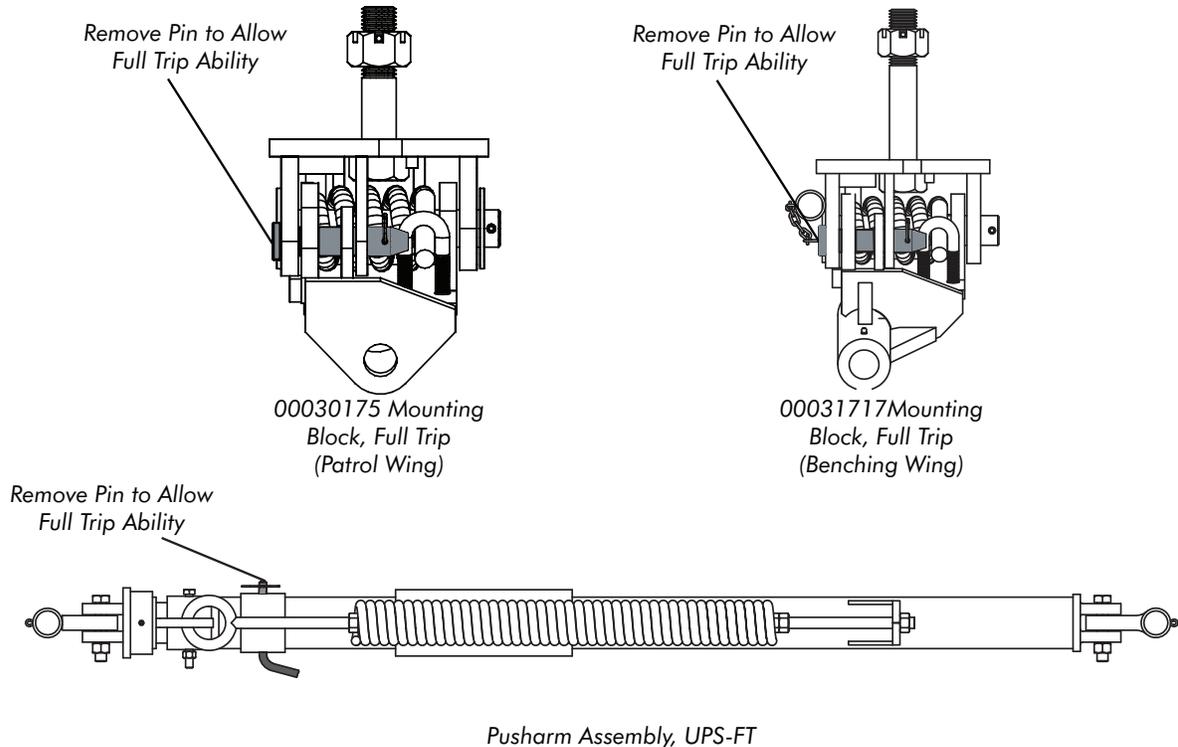
5. Lower the wing (front & rear) to the floor. **Retract the arm cylinder completely.** The outer split collar (for lifting) should be positioned  $\frac{1}{2}$ " to  $\frac{3}{4}$ " inside (towards truck) the mark made in step 4. Weld the collar all around, but only on the side away from the sliding collar. Position other split collar 2" behind the back sliding collar and weld in the same manner. Weld seams also. Locate (2)  $\frac{1}{2}$ " x 1" x 14" bars on the split collars to limit rotation of slide collar.



# Full Trip Feature

Full trip wing assemblies have a front trip/hinge assembly with an adjustable torsion spring and a lower and upper push arm. Both the lower and the upper push arms are adjustable in length. The upper push arm has an adjustable extension spring.

To allow the wing to FULLY TRIP when engaging an immovable object, (2) **PINS MUST** be removed. See Figure 1 One is on the front trip/hinge assembly and one is on the upper push arm.



**Figure 1**

The front trip hinge assembly has a 1.250" x 5.500" flat head pin with a hair pin cotter. The upper push arm has a .500" bent pin with a hair pin cotter.

**BOTH** pins have to be removed to allow the full trip action.

**CAUTION:** Both pins have to be either installed or removed at the same time to reduce the possibility of damage.



# Patrol Wing

## Fixed Moldboard, Trim-Line Post, Direct Heel Lift

00056773 8' DFWMB, FIXED MOLDBOARD, TRIM-LINE, DIRECT HEEL LIFT, 316			
Item	Qty.	Part Number	Description
1	1	00075768	CROSS TUBE WLDMT,TRIM-LINE
2	1	00016331	WING POST ASSY,FR,DF,TRIM-LINE See page 26
3	1	00073318	MTG BLOCK ASSY,DF,TRIM-LINE See page 30
4	1	01130707	MTG HDW KIT,DF WING See page 32
5	1	01130620	BOLT 1.50-6 x 6.50 G8 HHCS ZC See page 31
6	1	05002507	CYLINDER,4x21.75,DA See page 56
7	1	00033107	MLDBD ASSY,WING,8DFWMB,316 See page 33
8	1	00039725	BRACKET,LOWER PUSHARM,WING MT, See page 39
9	2	00038868	PIPE,MS,2.000xSCH80x41.813
10	1	00107385	MOUNT ASSY,REAR,WING,PATROL,RH See page 40
11	1	05051700	MANUAL,WING,PATROL,HD DBL FUNC
12	1	00055429	STOP KIT,TOE,POST,WING See page 39

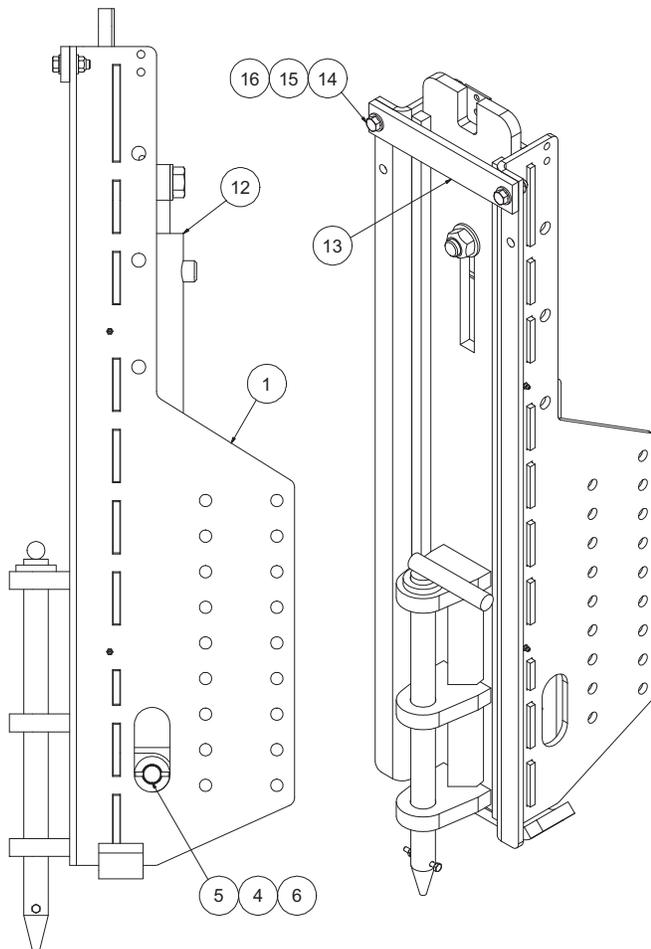
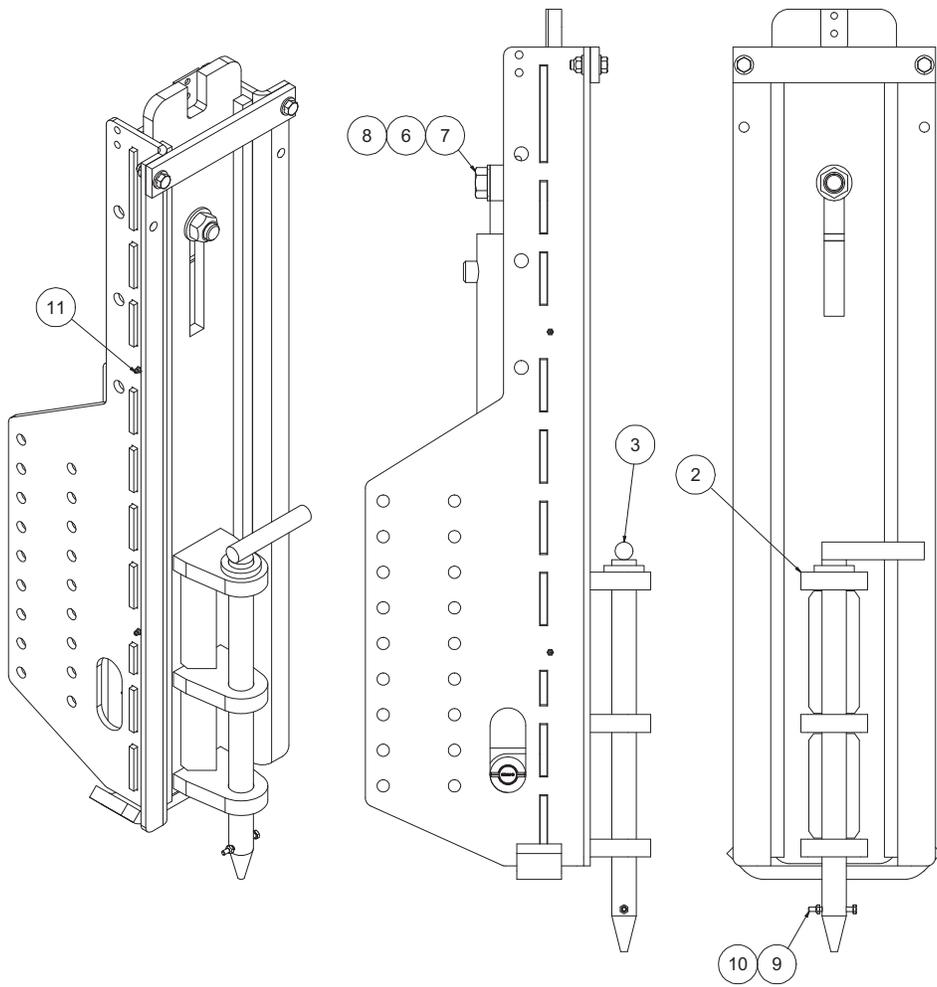
00056774 9' DFWMB, FIXED MOLDBOARD, TRIM-LINE, DIRECT HEEL LIFT, 316			
Item	Qty.	Part Number	Description
1	1	00075768	CROSS TUBE WLDMT,TRIM-LINE
2	1	00016331	WING POST ASSY,FR,DF,TRIM-LINE See page 26
3	1	00073318	MTG BLOCK ASSY,DF,TRIM-LINE See page 30
4	1	01130707	MTG HDW KIT,DF WING See page 32
5	1	01130620	BOLT 1.50-6 x 6.50 G8 HHCS ZC See page 31
6	1	05002507	CYLINDER,4x21.75,DA See page 56
7	1	00033108	MLDBD ASSY,WING,9DFWMB,316 See page 33
8	1	00039725	BRACKET,LOWER PUSHARM,WING MT, See page 39
9	2	00038868	PIPE,MS,2.000xSCH80x41.813
10	1	00107385	MOUNT ASSY,REAR,WING,PATROL,RH See page 40
11	1	05051700	MANUAL,WING,PATROL,HD DBL FUNC
12	1	00055429	STOP KIT,TOE,POST,WING See page 39

# Patrol Wing

## Fixed Moldboard, Trim-Line Post, Direct Heel Lift

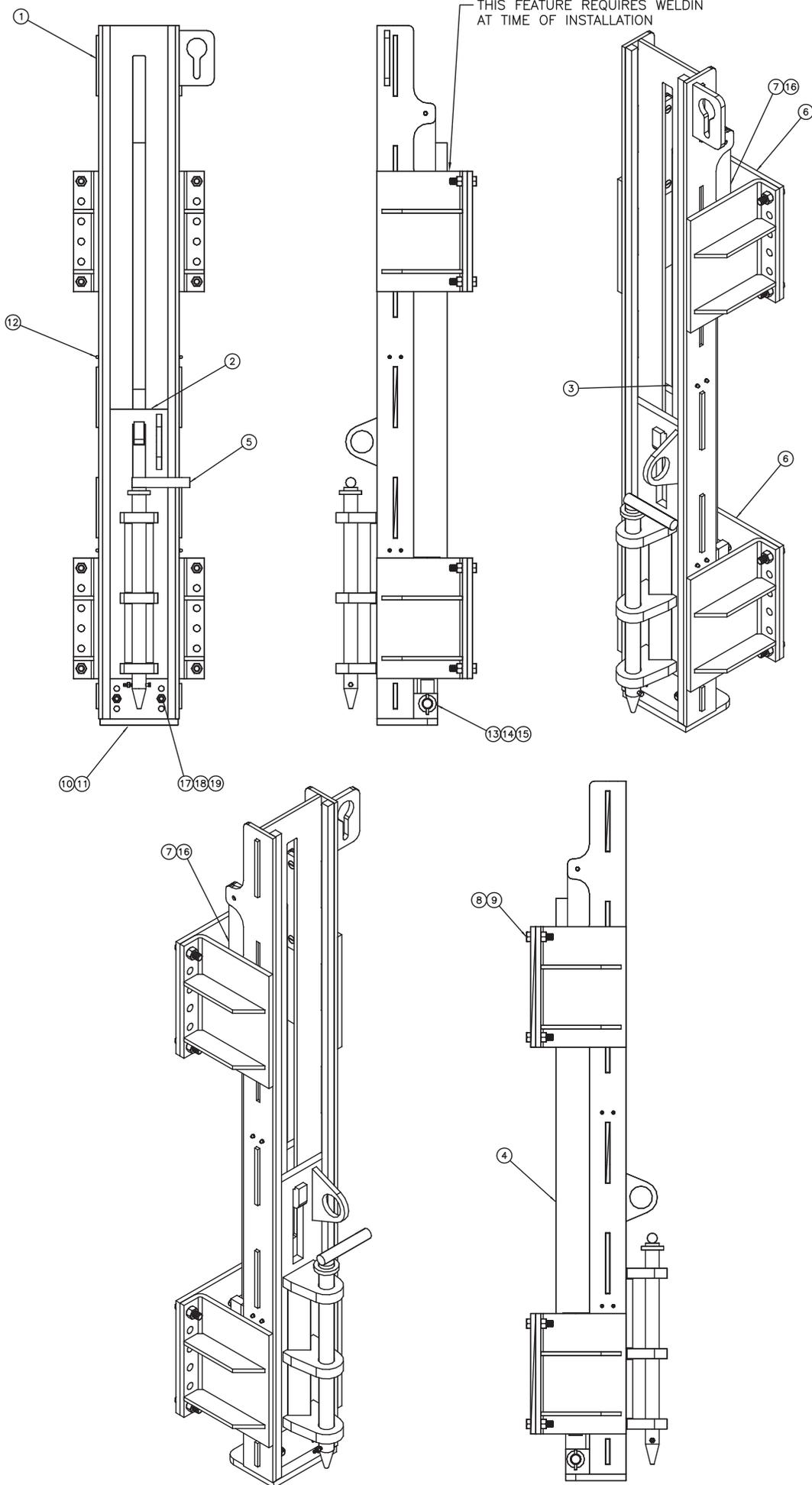
00056775 10' DFWMB, FIXED MOLDBOARD, TRIM-LINE, DIRECT HEEL LIFT, 316			
Item	Qty.	Part Number	Description
1	1	00075768	CROSS TUBE WLDMT,TRIM-LINE
2	1	00016331	WING POST ASSY,FR,DF,TRIM-LINE See page 26
3	1	01130616	MTG BLOCK WLDMT See page 31
4	1	01130707	MTG HDW KIT,DF WING See page 32
5	1	01130620	BOLT 1.50-6 x 6.50 G8 HHCS ZC See page 31
6	1	00031794	MLDBD ASSY,WING,10SFWMB,316 See page 34
7	1	00039725	BRACKET,LOWER PUSHARM,WING MT, See page 39
8	2	00038868	PIPE,MS,2.000xSCH80x41.813
9	1	00107385	MOUNT ASSY,REAR,WING,PATROL,RH See page 40
10	1	05051700	MANUAL,WING,PATROL,HD DBL FUNC
11	1	05003210	CYLINDER,3x15,DA,FOR UPA-FULL See page 57
12	1	00055429	STOP KIT,TOE,POST,WING See page 39

00061547 11' DFWMB, FIXED MOLDBOARD, TRIM-LINE, DIRECT HEEL LIFT, 316			
Item	Qty.	Part Number	Description
1	1	00075768	CROSS TUBE WLDMT,TRIM-LINE
2	1	00016331	WING POST ASSY,FR,DF,TRIM-LINE See page 26
3	1	01130616	MTG BLOCK WLDMT See page 31
4	1	01130707	MTG HDW KIT,DF WING See page 32
5	1	01130620	BOLT 1.50-6 x 6.50 G8 HHCS ZC See page 31
6	1	00031795	MLDBD ASSY,WING,11SFWMB,316 See page 34
7	1	00039725	BRACKET,LOWER PUSHARM,WING MT, See page 39
8	2	00038868	PIPE,MS,2.000xSCH80x41.813
9	1	00107385	MOUNT ASSY,REAR,WING,PATROL,RH See page 40
10	1	05051700	MANUAL,WING,PATROL,HD DBL FUNC
11	1	05003210	CYLINDER,3x15,DA,FOR UPA-FULL See page 57
12	1	00055429	STOP KIT,TOE,POST,WING See page 39



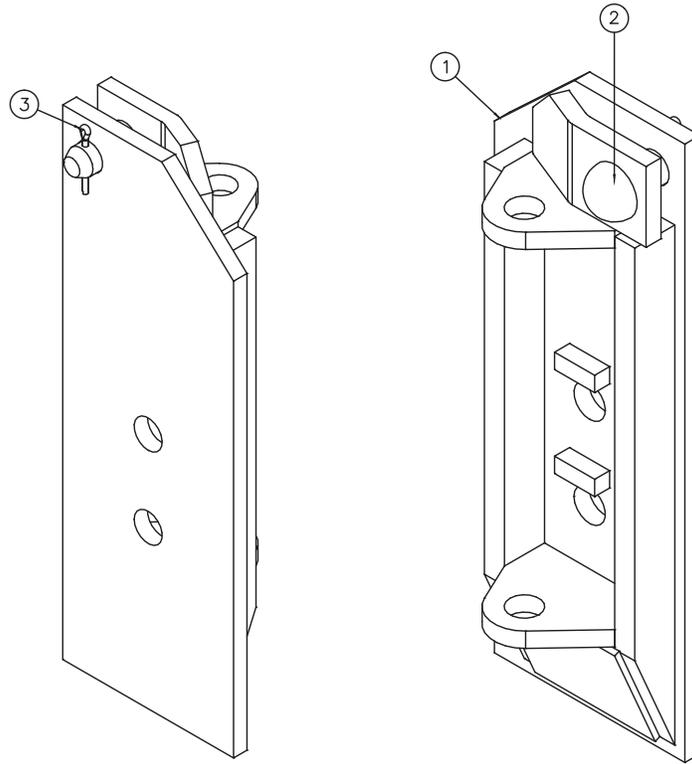
**00016331 WING POST ASSY, FR, DF, TRIM-LINE, 18 LIFT**

<b>ITEM</b>	<b>QTY</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
1	1	00073306	WING POST WLDMT,RHFR,PATROL,DF
2	1	00073313	SLIDER WLDMT,POST,TRIM-LINE
3	1	01130613	ATTACHMENT PIN WLDMT,BLOCK
4	2	05022026	PIN .250 x 2.000 OA,ROLL
5	1	05022040	PIN 1.000 x 4.250 NO HEAD
6	5	05021020	WASHER 1.000 FLAT MIL-CARB SAE
7	1	05010821	BOLT 1.00-8 x 5.50 G8 HHCS ZC
8	1	05020834	NUT 1.00-8 GC TOPLOCK C&W
9	1	05010599	BOLT .250-20 x 2.50 G8 HHCS ZC
10	1	05020899	NUT .250-20 GC TOPLOCK C&W
11	4	05050288	GREASE ZERK,.250-28 STRAIGHT
12	1	05002755	CYLINDER,3x24 DA,2ROD,WING TOE See page 58
13	1	00014625	STIFFENER BAR,BOLT-ON,WING
14	2	05010692	BOLT .500-13 x 1.75 G8 HHCS ZC
15	4	05021005	WASHER .500 FLAT MIL-CARB SAE
16	2	05020847	NUT .500-13 GC TOPLOCK C&W



**00095716 WING POST ASSEMBLY, RHFR, PATROL 40, DF DIRECT**

<b>Item</b>	<b>Qty.</b>	<b>Part Number</b>	<b>Description</b>
1	1	00095717	POST WLDMT,RHFR,PATROL,40.0
2	1	00095727	SLIDER WLDMT,WING,40.0
3	1	00095734	SLIDER WLDMT,POST PORTION,40.0
4	1	05002908	CYLINDER,3.5x40,DA,POLY PAK,2"
5	1	01130613	ATTACHMENT PIN WLDMT,BLOCK
6	2	00039703	MTG PL,WING
7	4	05014675	BOLT .375-16 x .750 FSHCS
8	8	05010740	BOLT .625-11 x 2.25 G8 HHCS ZC
9	8	05020837	NUT .625-11 GC TOPLOCK C&W
10	1	05010599	BOLT .250-20 x 2.50 G8 HHCS ZC
11	1	05020899	NUT .250-20 GC TOPLOCK C&W
12	8	05050288	GREASE FITTING, .250-28 UNF ST
13	1	05022040	PIN 1.000 x 4.250 NO HEAD
14	2	05022026	PIN .250 x 2.000 OA,ROLL
15	2	05021314	WASHER 1.00 FLAT ZC
16	2	00080567	RETAINER PL,SLIDE,WING POST
17	1	00109391	SLIDER STOP,POST,WING,40.0
18	2	05010691	BOLT .500-13 x 1.50 G8 HHCS ZC
19	2	05020847	NUT .500-13 GC TOPLOCK C&W



**00073318 MOUNTING BLOCK ASSEMBLY, DF, TRIM-LINE**

Item	Qty.	Part Number	Description
1	1	00073319	MTG BLOCK WLDMT,DF,TRIM-LINE
2	1	05022122	PIN 1.375 x 3.75 ROUND HD ZC,2.87 GRIP
3	1	05022007	COTTER PIN, .250x2.500

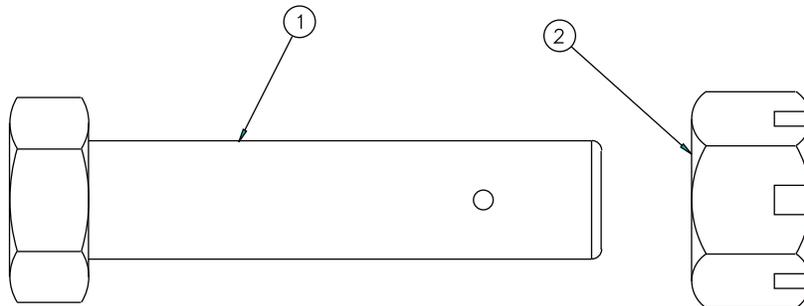
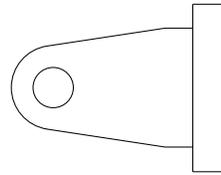
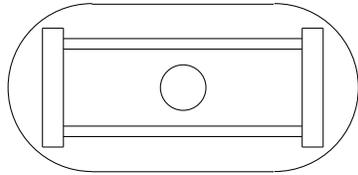
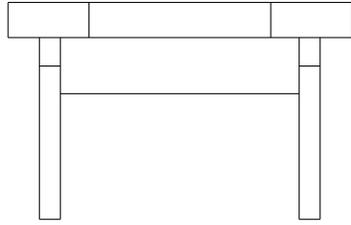
**00073324 MOUNTING BLOCK ASSEMBLY, DF, LH, TRIM-LINE**

Item	Qty.	Part Number	Description
1	1	00073325	MOUNTING BLOCK WELDMENT, DF, LH
2	1	05022122	PIN, 1.375 X 3.75, ROUND HD, ZINC
3	1	05022007	COTTER, PIN, .250 X 2.50

**00042264 MOUNTING BLOCK ASSEMBLY, DFMB, RH**

Item	Qty.	Part Number	Description
1	1	01130603	MOUNTING BLOCK WELDMENT, 16.5
2	1	05022122	PIN, 1.375 X 3.75, ROUND HD, ZINC
3	1	05022007	COTTER, PIN, .250 X 2.50

**01130616 MOUNTING BLOCK WELDMENT**



01130620 WING MOUNTING BOLT/NUT			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00051600	MTG BOLT,WING
2	1	05020401	NUT 1.50-6 G2 SLHEX ZC

**01130707 MOUNTING HARDWARE KIT, DF WING**

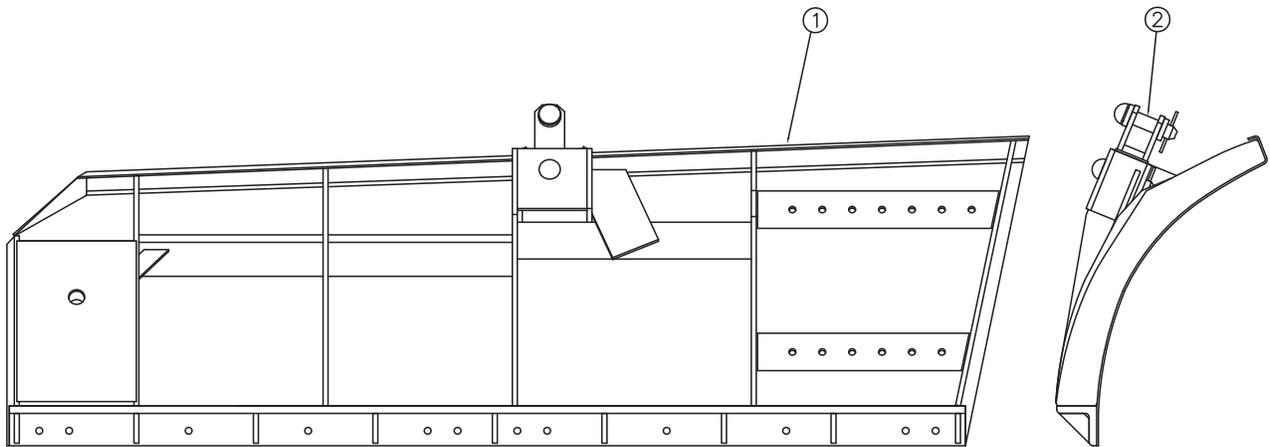
Item	Qty.	Part Number	Description
1	1	05051395	CARDBOARD,BOX,12"x8"x7" FOL
2	4	05051418	PIPE BALL END
3	4	00039713	ANGLE,MS,4.00x3.00x.500x7.000
4	2	01130706	SUPPORT BAR/BOLT BOX
5	4	05010755	BOLT .625-11 x 8.00 G8 HHCS ZC
6	20	05010740	BOLT .625-11 x 2.25 G8 HHCS ZC
7	24	05020837	NUT .625-11 GC TOPLOCK C&W
8	1	05052746	GRAB HOOK, .375",FORGED
9	1	05021318	WASHER 1.500 FLAT ZC
10	1	05022050	PIN .250 x 2.250 COTTER
11	4	05010766	BOLT .750-10 x 2.50 G8 HHCS ZC
12	4	05020849	NUT .750-10 GC TOPLOCK C&W
13	8	05010741	BOLT .625-11 x 2.50 G8 HHCS ZC
14	8	05021383	WASHER .625 LOCK HVY ZC
15	8	05020270	NUT .625-11 G8 HEX ZC

**00043524 MTG HDW KIT, JR WING**

Item	Qty.	Part Number	Description
1	2	05051418	PIPE BALL END
2	1	05051395	CARDBOARD,BOX,12"x8"x7" FOL
3	8	00156141	SUPPORT, WING, JR
4	1	05052746	GRAB HOOK, .375",FORGED
5	24	05010741	BOLT .625-11 x 2.50 G8 HHCS ZC
6	2	05010753	BOLT .625-11 x 7.00 G8 HHCS ZC
7	1	05021318	WASHER 1.500 FLAT ZC
8	26	05020837	NUT .625-11 GC TOPLOCK C&W
9	1	05022007	COTTER PIN, .250x2.500
10	1	00030114	CHAIN,HIGH TEST, .375x16.750
11	2	00067926	MTG ANGLE,PIPE BRACE
12	52	05021007	WASHER .625 FLAT MIL-CARB ZINC

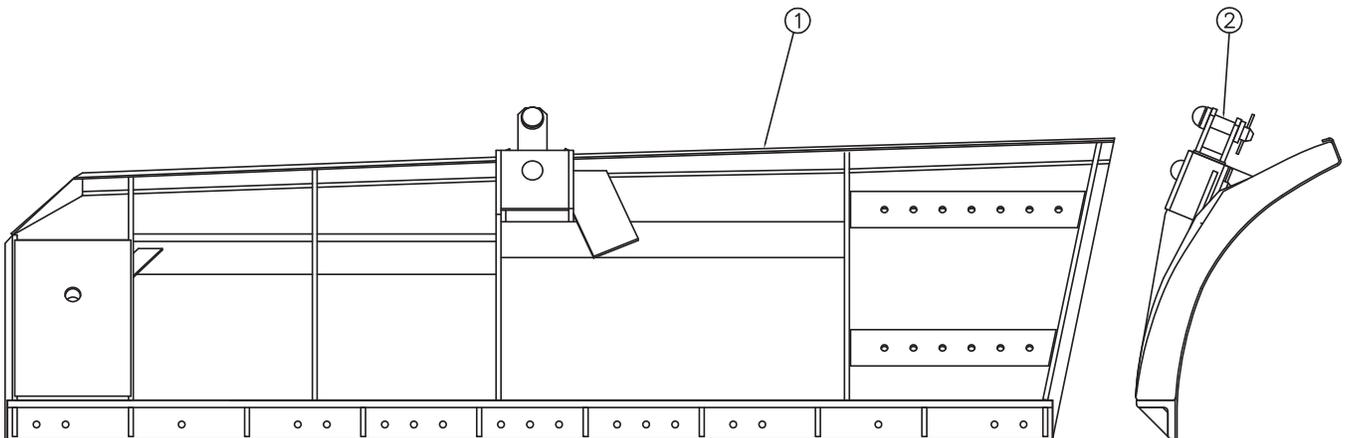
**00095737 MOUNTING HARDWARE KIT, DF WING, 40**

Item	Qty.	Part Number	Description
1	1	05051395	CARDBOARD,BOX,12"x8"x7" FOL
2	4	00039713	ANGLE,MS,4.00x3.00x.500x7.000
3	4	05010755	BOLT .625-11 x 8.00 G8 HHCS ZC
4	28	05010740	BOLT .625-11 x 2.25 G8 HHCS ZC
5	32	05020837	NUT .625-11 GC TOPLOCK C&W
6	1	05052746	GRAB HOOK, .375",FORGED
7	1	05021318	WASHER 1.500 FLAT ZC
8	1	05022050	PIN .250 x 2.250 COTTER
9	4	05010766	BOLT .750-10 x 2.50 G8 HHCS ZC
10	4	05020849	NUT .750-10 GC TOPLOCK C&W
11	8	05010741	BOLT .625-11 x 2.50 G8 HHCS ZC
12	8	05021383	WASHER .625 LOCK HVY ZC
13	8	05020270	NUT .625-11 G8 HEX ZC
14	1	00030183	CHAIN,HIGH TEST, .375x63.000
15	1	05050646	HOOK,SLIP W/LATCH,CLEVIS MOUNT
16	4	05051418	PIPE BALL END



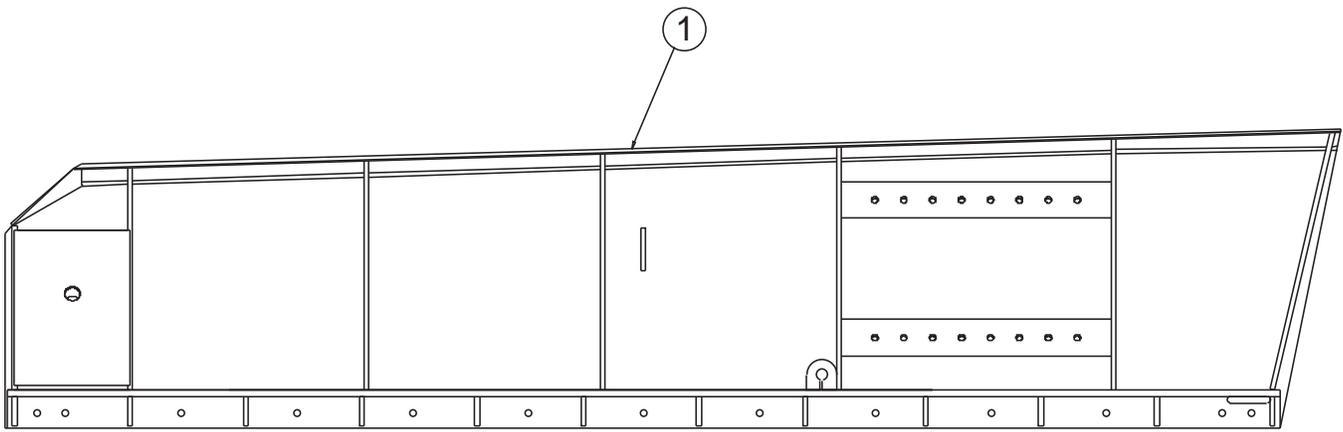
**00033107 MLDBD ASSY,WING,8DFWMB,316**

Item	Qty.	Part Number	Description
1	1	00028860	MLDBD WLDMT,WING,8DFWMB,316
2	1	00011711	LINKAGE,FLOAT,DFWMB,6",NS See page 36
3	1	05050095	TAG,SERIAL NUMBER,STD
4	1	00055962	DECAL KIT,PLOW/WING See page 37
5	1	00049750	CE KIT,8',.625x8.0,TPCS See page 38



**MOLDBOARD ASSEMBLY, WING, 9DFWMB, 316**

Item	Qty.	Part Number	Description
1	1	00028861 00049701	MOLDBOARD WELDMENT, WING, 9DFWMB, 316 MOLDBOARD WELDMENT, WING, 9DFWMB-L, 316
2	1	00011711	LINKAGE, FLOAT, DFWMB, 6", NS See page 36
3	1	05050095	TAG, SERIAL NUMBER
4	1	00055962	DECAL KIT, PLOW/WING See page 37
5	1	00049751 00057619	CUTTING EDGE KIT, 9', .625 X 8, TPCS See page 38 CUTTING EDGE KIT, 9', .750 X 6, CARBIDE



**00033103 MOLDBOARD ASSEMBLY, WING, 9SFWMB, 316, STRAIGHT**

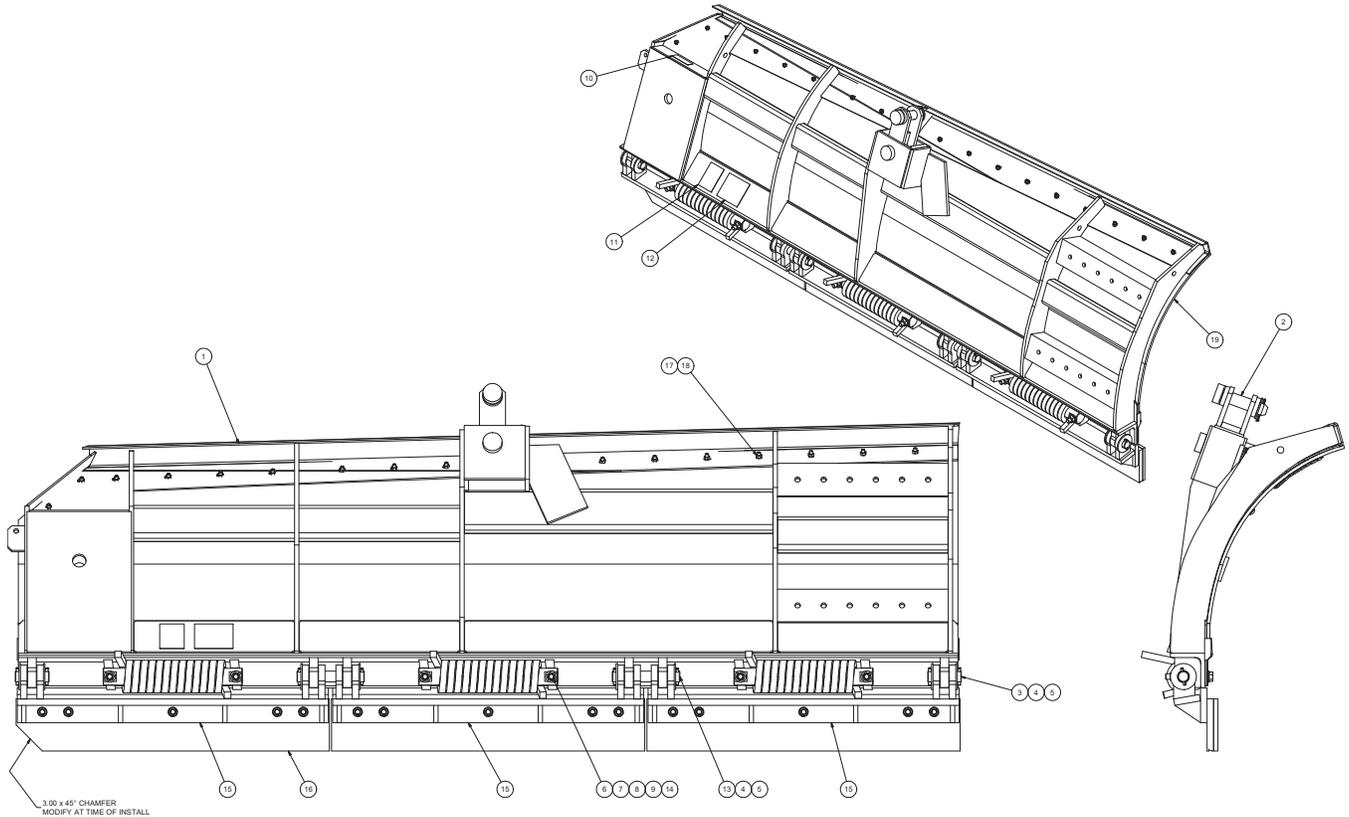
Item	Qty.	Part Number	Description
1	1	00030150	MOLDBOARD WELDMENT, WING, 9SFWMB 316 STR
2	1	05050095	SERIAL TAG
3	1	00055962	DECAL KIT, PLOW <span style="float: right;">See page 37</span>
4	1	00049751	CUTTING EDGE KIT, 9' .625 X 8 <span style="float: right;">See page 38</span>

**00031794 MLDBD ASSY,WING,10SFWMB,316**

Item	Qty.	Part Number	Description
1	1	00028830	MLDBD WLDMT,WING,10SFWMB
2	1	05050095	TAG,SERIAL NUMBER,STANDARD
3	1	00055962	DECAL KIT,PLOW/WING <span style="float: right;">See page 37</span>
4	1	00049752	CE KIT,10',.625 x 8.000,TPCSK <span style="float: right;">See page 38</span>

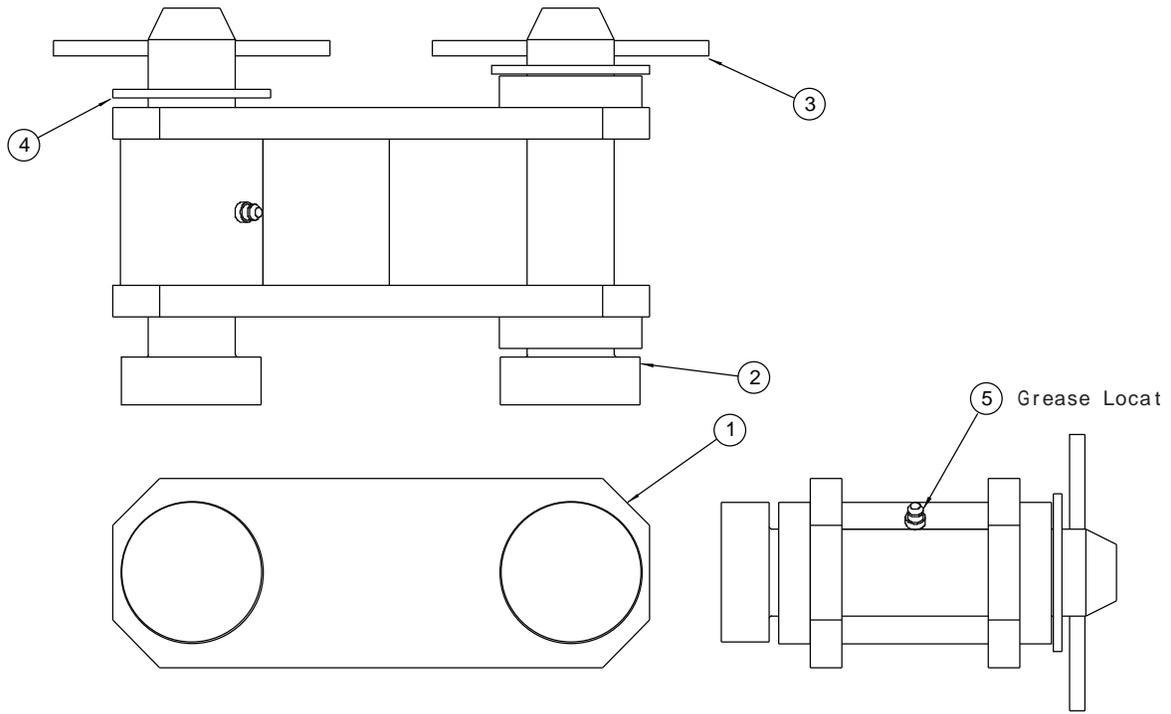
**00031795 WING MLDBD ASSY, 11SFWMB, 316**

Item	Qty.	Part Number	Description
1	1	00028831	MLDBD WLDMT,WING,11SFWMB,316
2	1	05050095	TAG,SERIAL NUMBER,STD
3	1	00055962	DECAL KIT,PLOW/WING <span style="float: right;">See page 37</span>
4	1	00049753	CE KIT,11',.625x8.0,TPCSK <span style="float: right;">See page 38</span>



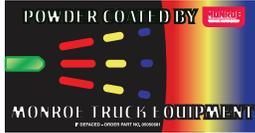
### 00156145 MOLDBOARD ASSEMBLY, WING, 9DFWMB-TE, POLY ONLY

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00156128	MLDBD WLDMT,WING,9DFWMB-TE,316
2	1	00011711	LINKAGE,FLOAT,DFWMB,6.0 <i>See page 36</i>
3	2	00054787	PIN,1.25 x 3.875,NO HEAD
4	8	05021316	WASHER 1.25 FLAT ZC
5	8	05022039	PIN .313 x 2.000 ROLL ZC
6	6	05010749	BOLT .625-11 x 5.00 G8 HHCS ZC
7	12	05021017	WASHER .625 FLAT MIL-CARB SAE
8	6	05020837	NUT .625-11 GC TOPLOCK C&W
9	3	05035110	SPRING,TORSION,.750 SQ WIRE
10	1	05050095	TAG,SERIAL NUMBER, STANDARD
11	1	00055962	DECAL KIT,PLOW/WING <i>See page 37</i>
12	1	05052743	DECAL,CAUTION MODIFY CUTTING
13	2	00144195	PIN,1.25 ZX 7.750 NO HEAD
14	3	00149624	PIN,1.938DIAx16.00,NO HEAD
15	3	00130526	TRIP EDGE WLDMT,PLOW,3'
16	1	00055929	CE KIT,9',.75x6.0,CARBIDE,COV <i>See page 38</i>
17	18	05013987	BOLT .375-16 x 1.25 G5 CRG ZC
18	18	05020607	NUT .375-16 G2 SPINLOCK ZC
19	1	00156146	SKIN,WING,9',POLY,TPR



**00011711 LINKAGE, FLOAT, DFWMB, 6.0, WITH PINS**

Item	Qty.	Part Number	Description
1	1	00025924	LINKAGE,FLOAT,DFWMB,6.0
2	2	05022103	PIN,1.375 x 5.5,FLAT HD ZC
3	2	05022006	PIN .250 x 2.000 COTTER
4	2	05021251	BUSHING,MACH,2.5x1.38x10GA,ZC,
5	1	05050003	GREASE FITTING .125 NPT STR



**WARNING**

Possible serious injury and equipment damage from loosening of equipment fasteners. Fasteners on snow and ice removal equipment may loosen due to vibration and repetitive movements. Retighten all equipment mounting fasteners after the first 8 hours of use, then check tightness weekly after that. Use a torque wrench when specific torque values are given in the installation manual. If fasteners need to be replaced, be certain to use the correct size, grade and type to prevent failure.

**MONROE**  
SNOW & ICE CONTROL

**QUALITY CHECK**

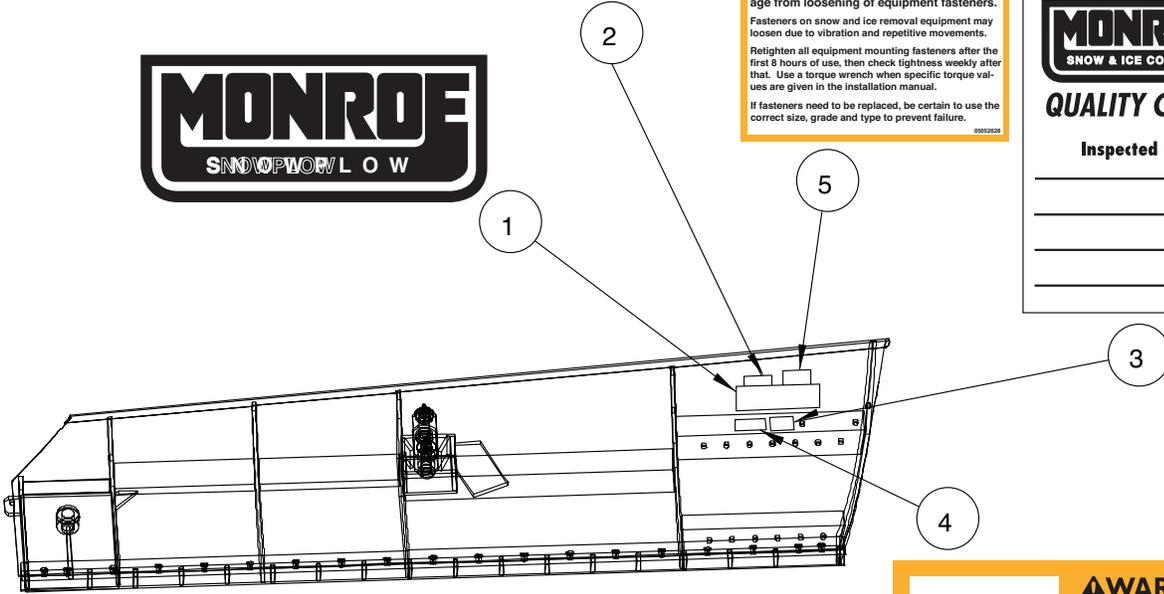
Inspected by: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

1 0505231



**WARNING**

Springs under tension! If spring releases while performing maintenance, serious injury or death could result. Use caution when working in area.

IF DEFACED - ORDER PART NO. 05052547

00055962 DECAL KIT, PLOW			
Item	Qty.	Part Number	Description
1	1	05051507	DECAL,MONROE SNOWPLOW,12x5
2	1	05050681	DECAL,2.5x4.5,BONDED POWDER
3	1	05052311	DECAL,QUALITY CHECK
4	1	05052547	DECAL,WARNING SPRINGS UNDER TENSION
5	1	05052628	DECAL,WARNING,TIGHTEN FASTENERS

**00049750 CE KIT,8',.625x8.0,TPCS**

Item	Qty.	Part Number	Description
1	1	05031075	CUTTING EDGE,.625x8x8',1084
2	10	05014551	BOLT .625-11 x 2.50 G8 DH PLN
3	10	05021383	WASHER .625 LOCK HVY ZC
4	10	05020270	NUT .625-11 G8 HEX ZC

**00049751 CE KIT,9',.625x8.0,TPCS**

Item	Qty.	Part Number	Description
1	1	05031076	CUTTING EDGE,.625x8x9',1084
2	11	05014551	BOLT .625-11 x 2.50 G8 DH PLN
3	11	05021383	WASHER .625 LOCK HVY ZC
4	11	05020270	NUT .625-11 G8 HEX ZC

**00049752 CE KIT,10',.625x8.0,TPCSK**

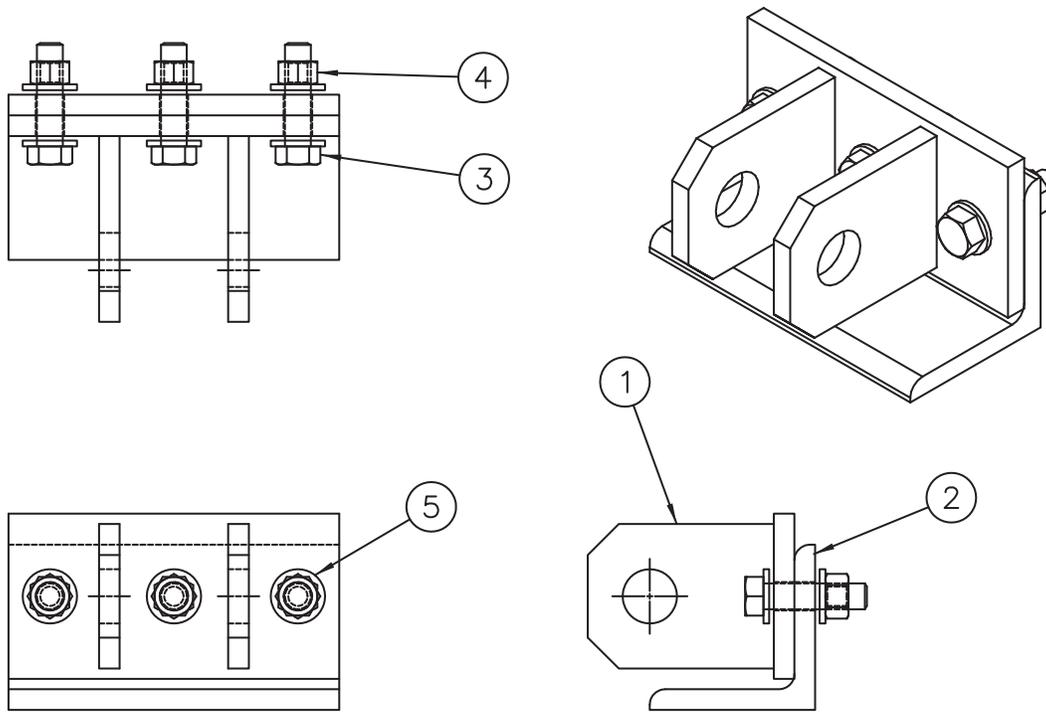
Item	Qty.	Part Number	Description
1	1	05031012	CUTTING EDGE,.625x8x10',1084
2	12	05014551	BOLT .625-11 x 2.50 G8 DH PLN
3	12	05021383	WASHER .625 LOCK HVY ZC
4	12	05020270	NUT .625-11 G8 HEX ZC

**00049753 CE KIT,11',.625x8.0,TPCSK**

Item	Qty.	Part Number	Description
1	1	05031013	CUTTING EDGE,.625x8x11',1084
2	13	05014551	BOLT .625-11 x 2.50 G8 DH PLN
3	13	05021383	WASHER .625 LOCK HVY ZC
4	13	05020270	NUT .625-11 G8 HEX ZC

**00055929 CUTTING EDGE KIT, 9', .75 X 6, CARBIDE, COV**

Item	Qty.	Part Number	Description
1	3	05031082	CUTTING EDGE, CARBIDE, .75 X 6 X 3'
2	3	05031008	CUTTING EDGE, .5 X 6 X 3', 1084, TPCS
3	11	05014553	BOLT, .625-11 X 3, G8, DH PLAIN
4	15	05021383	WASHER, .625, LOCK, HEAVY, ZINC
5	15	05020270	NUT, .625, G8, HEX, ZINC
6	4	05014551	BOLT, .625-11 X 2.5, G8, DH PLAIN



### 00039725 BRACKET LOWER, PUSHARM

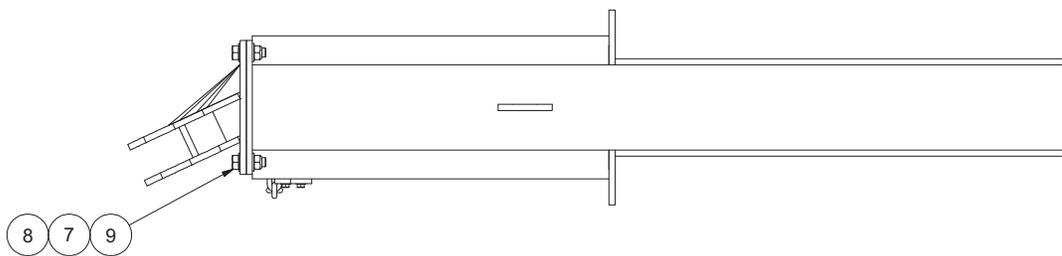
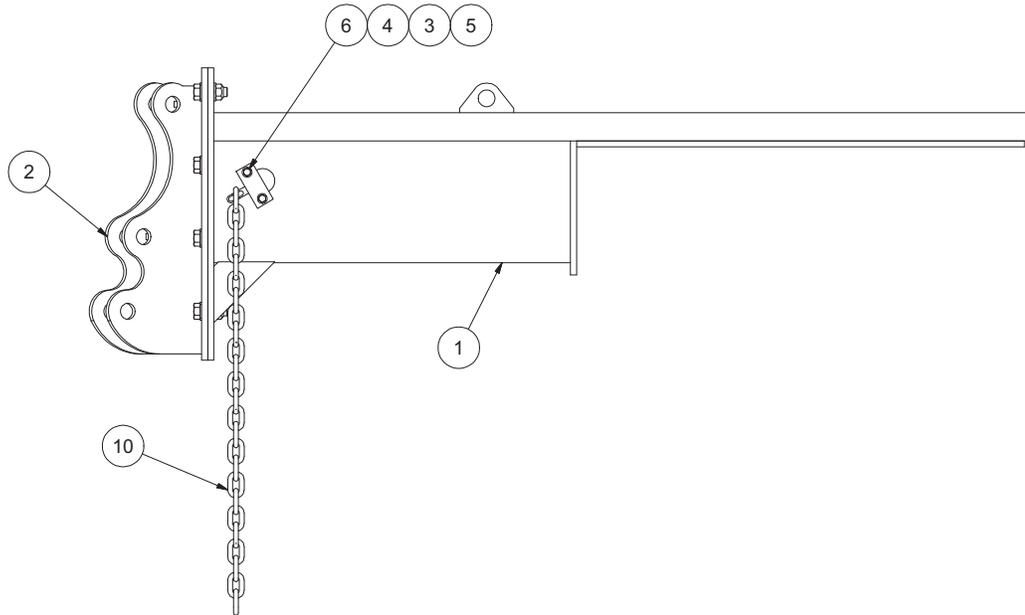
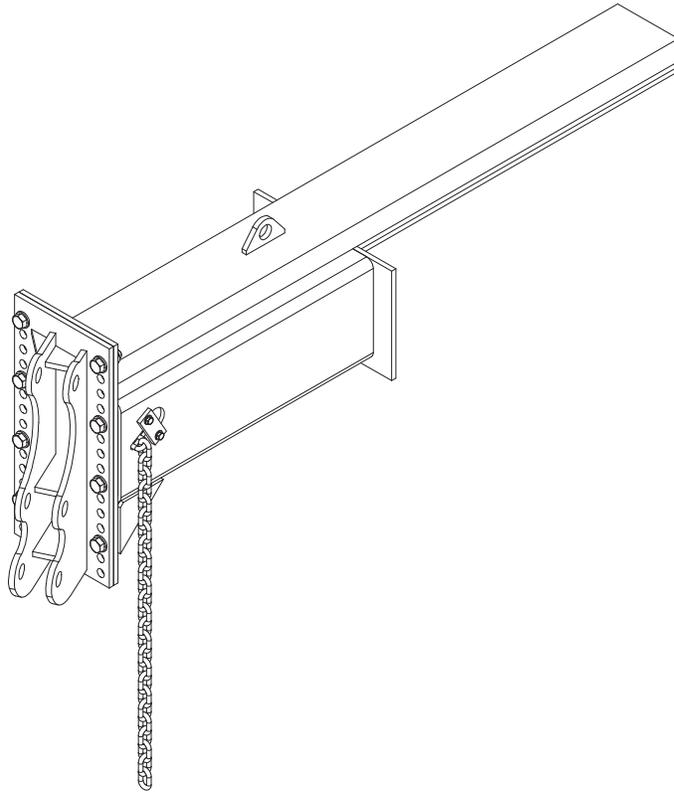
Item	Qty.	Part Number	Description
1	1	01130958	BRACKET WLDMT,LOWER PUSHARM
2	1	01130961	ANGLE DETAIL
3	3	05010741	BOLT .625-11 x 2.50 G8 HHCS ZC
4	3	05020837	NUT .625-11 GC TOPLOCK C&W
5	6	05021017	WASHER .625 FLAT MIL-CARB SAE

### 00055429 STOP KIT, TOE, POST, WING

Item	Qty.	Part Number	Description
1	1	00030183	CHAIN,HIGH TEST,.375x63.000
2	1	05050592	CLEVIS,DOUBLE,.375,5400 CAP
3	1	00055428	KEYHOLE PL,POST,WING
4	1	05010694	BOLT .500-13 x 2.25 G8 HHCS ZC
5	2	05021005	WASHER .500 FLAT MIL-CARB SAE
6	1	05020847	NUT .500-13 GC TOPLOCK C&W
7	1	05050272	CARDBOARD,BOX,8"x6.5"x2.5"

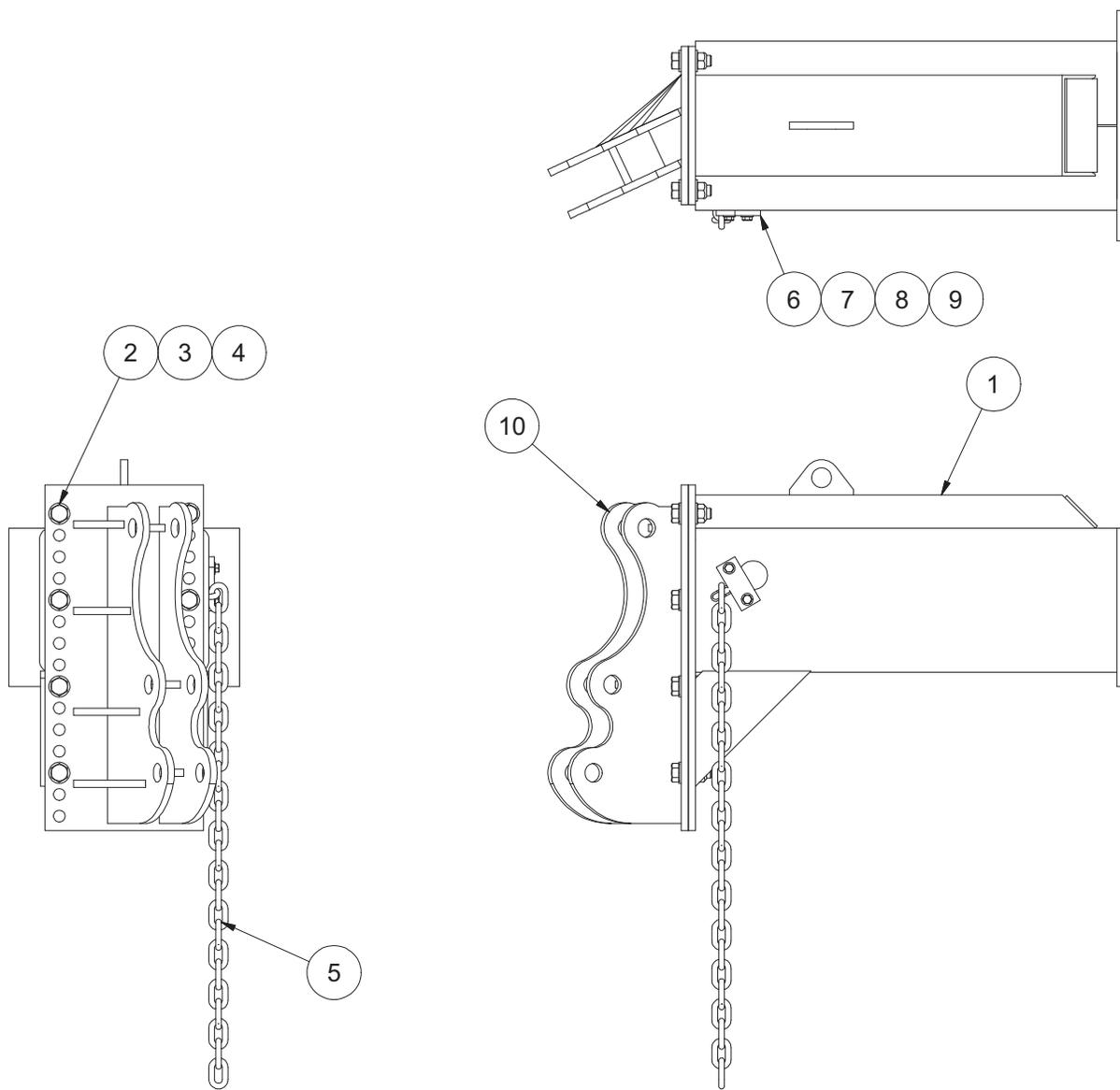
### 00100958 STOP KIT, TOE, POST, PARA, WING

Item	Qty.	Part Number	Description
1	1	00015932	CHAIN,HIGH TEST,.375x30.875
2	1	05050592	CLEVIS,DOUBLE,.375,5400 CAP
3	1	00055428	KEYHOLE PL,POST,WING
4	1	05010694	BOLT .500-13 x 2.25 G8 HHCS ZC
5	2	05021005	WASHER .500 FLAT MIL-CARB SAE
6	1	05020847	NUT .500-13 GC TOPLOCK C&W



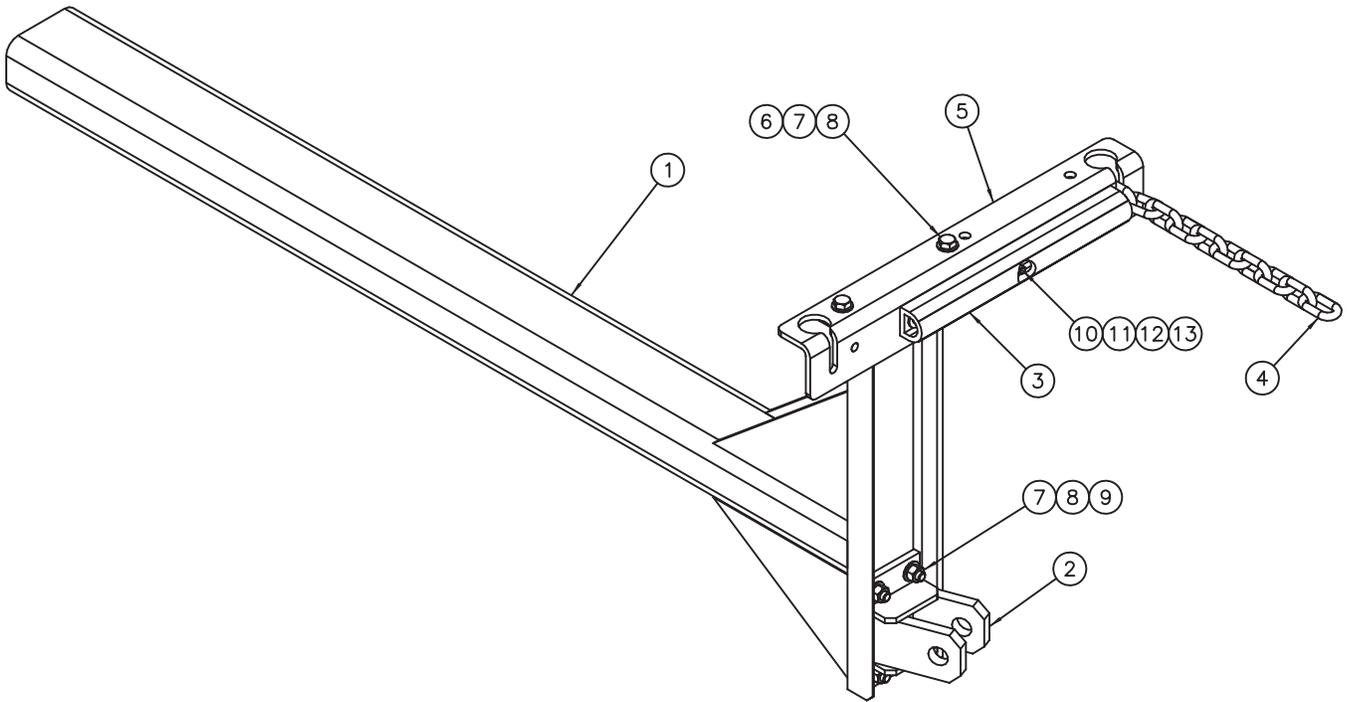
**00107385 MOUNT ASSY, REAR, WING, PATROL, RH**

<b>ITEM</b>	<b>QTY</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
1	1	00107384	MOUNT WLDMT,REAR,WING,PATROL
2	1	00107378	MOUNT WLDMT,PUSHARM,RH
3	1	00107386	RETAINER,CHAIN
4	4	05021013	WASHER .375 FLAT MIL-CARB SAE
5	2	05020898	NUT .375-16 GC TOPLOCK C&W
6	2	05010645	BOLT .375-16 x 1.50 G8 HHCS ZC
7	16	05021018	WASHER .750 FLAT MIL-CARB SAE
8	8	05020849	NUT .750-10 GC TOPLOCK C&W
9	8	05010765	BOLT .750-10 x 2.25 G8 HHCS ZC
10	1	00030216	CHAIN,HIGH TEST, .375 x 31.500



### 00113851 MOUNT ASSEMBLY, REAR, WING, PATROL, RH

Item	Qty.	Part Number	Description
1	1	00113849	MOUNT WLDMT,REAR,WING,PATROL
2	8	05020849	NUT .750-10 GC TOPLOCK C&W
3	8	05010765	BOLT .750-10 x 2.25 G8 HHCS ZC
4	16	05021018	WASHER .750 FLAT MIL-CARB SAE
5	1	00030216	CHAIN,HIGH TEST, .375 x 31.500
6	1	00107386	RETAINER,CHAIN
7	4	05021013	WASHER .375 FLAT MIL-CARB SAE
8	2	05020898	NUT .375-16 GC TOPLOCK C&W
9	2	05010645	BOLT .375-16 x 1.50 G8 HHCS ZC
10	1	00107378	MOUNT WLDMT,PUSHARM,RH



### 00054588 MOUNT ASSEMBLY, REAR, PUSHARM

Item	Qty.	Part Number	Description
1	1	00088987	MOUNT WELDMENT, REAR
2	1	00054587	MOUNT WELDMENT, PUSHARM, REAR
3	1	00088986	RUBBER BUMPER, REAR MOUNT
4	1	00030184	CHAIN, .375 X 38 LINKS
5	1	00088982	KEYHOLE PL, REAR MOUNT
6	2	05010738	BOLT, .625-11 X 1.75, G8, HHCS, ZINC
7	12	05021017	WASHER, .625 MIL-CARB, FLAT, ZINC
8	6	05020837	NUT, .625-11, GC, TOP LOCK, C&W
9	4	05010739	BOLT, .625-11 X 2, G8, HHCS, ZINC
10	2	05010691	BOLT, .5-13 X 1.50, G8, HHCS, ZINC
11	6	05021005	WASHER, .5, MIL-CARB, FLAT, ZINC
12	3	05020847	NUT, .5-13, GC, TOP LOCK C&W
13	1	05010693	BOLT, .5-13 X 2, G8, HHCS, ZINC

# Patrol Wing

## Trip Edge Moldboard, Trim-Line Post, Direct Heel Lift

00061574 8' DFWMB, TRIP EDGE, TRIM-LINE, DIRECT HEEL LIFT, 316			
Item	Qty.	Part Number	Description
1	1	00075768	CROSS TUBE WLDMT,TRIM-LINE
2	1	00016331	WING POST ASSY,FR,DF,TRIM-LINE See page 26
3	1	00073318	MTG BLOCK ASSY,DF,TRIM-LINE See page 30
4	1	01130707	MTG HDW KIT,DF WING See page 32
5	1	01130620	BOLT 1.50-6 x 6.50 G8 HHCS ZC See page 31
6	1	05002507	CYLINDER,4x21.75,DA See page 56
7	1	00138260	MLDBD ASSY,WING,8DFWMB-TE,316 See page 46
8	1	00039725	BRACKET,LOWER PUSHARM,WING MT, See page 39
9	2	00038868	PIPE,MS,2.000xSCH80x41.813
10	1	00107385	MOUNT ASSY,REAR,WING,PATROL,RH See page 40
11	1	05051700	MANUAL,WING,PATROL,HD DBL FUNC
12	1	00055429	STOP KIT,TOE,POST,WING See page 39

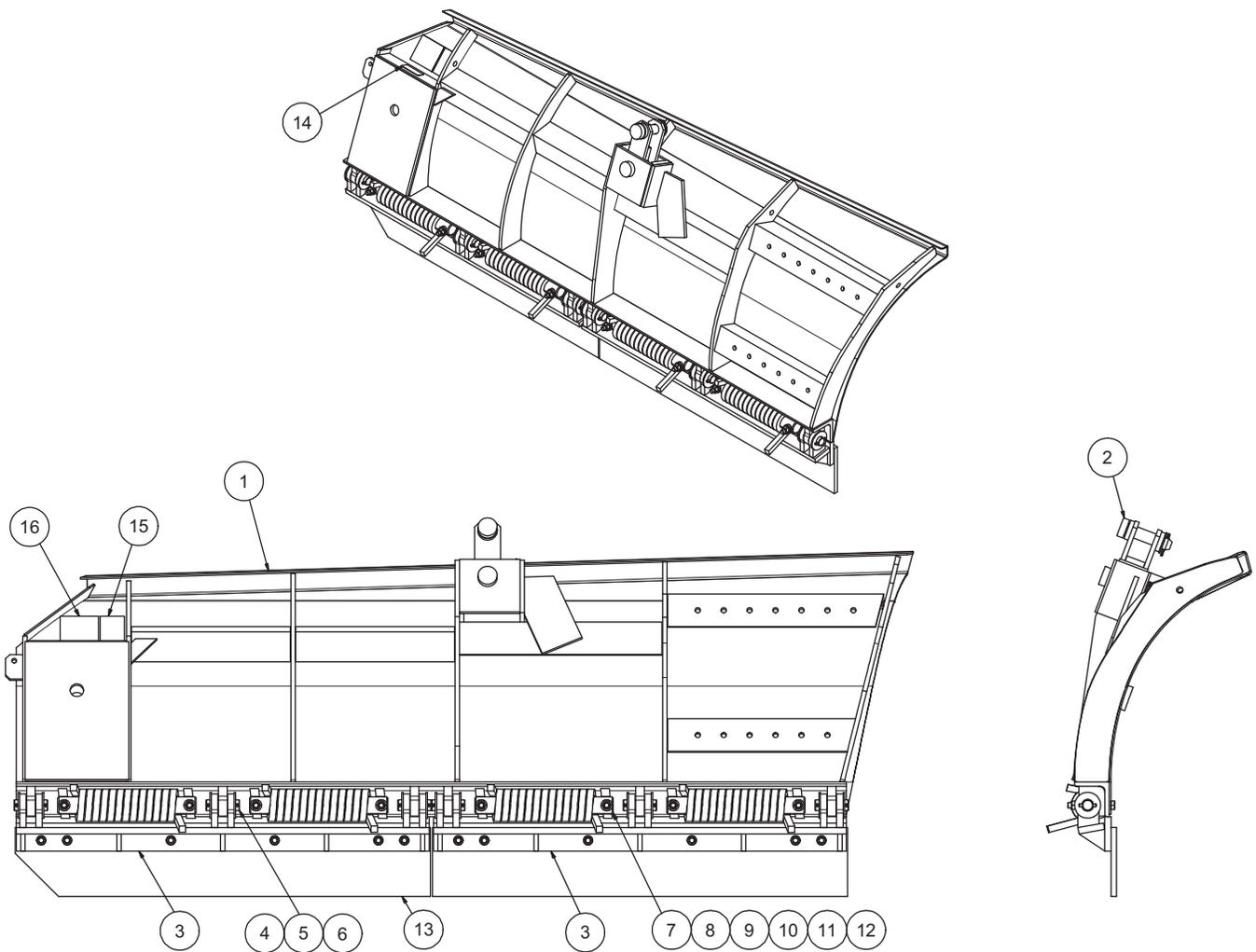
00061575 9' DFWMB, TRIP EDGE, TRIM-LINE, DIRECT HEEL LIFT, 316			
Item	Qty.	Part Number	Description
1	1	00075768	CROSS TUBE WLDMT,TRIM-LINE
2	1	00016331	WING POST ASSY,FR,DF,TRIM-LINE,18 LIFT See page 26
3	1	00073318	MTG BLOCK ASSY,DF,TRIM-LINE See page 30
4	1	01130707	MTG HDW KIT,DF WING See page 32
5	1	01130620	BOLT 1.50-6 x 6.50 G8 HHCS ZC See page 31
6	1	05002507	CYLINDER,4x21.75,DA See page 56
7	1	00138240	MLDBD ASSY,WING,9DFWMB-TE,316 See page 47
8	1	00039725	BRACKET,LOWER PUSHARM,WING MT, See page 39
9	2	00038868	PIPE,MS,2.000xSCH80x41.813
10	1	00107385	MOUNT ASSY,REAR,WING,PATROL,RH See page 40
11	1	05051700	MANUAL,WING,PATROL,HD DBL FUNC
12	1	00055429	STOP KIT,TOE,POST,WING See page 39

# Patrol Wing

## Trip Edge Moldboard, Trim-Line Post, Direct Heel Lift

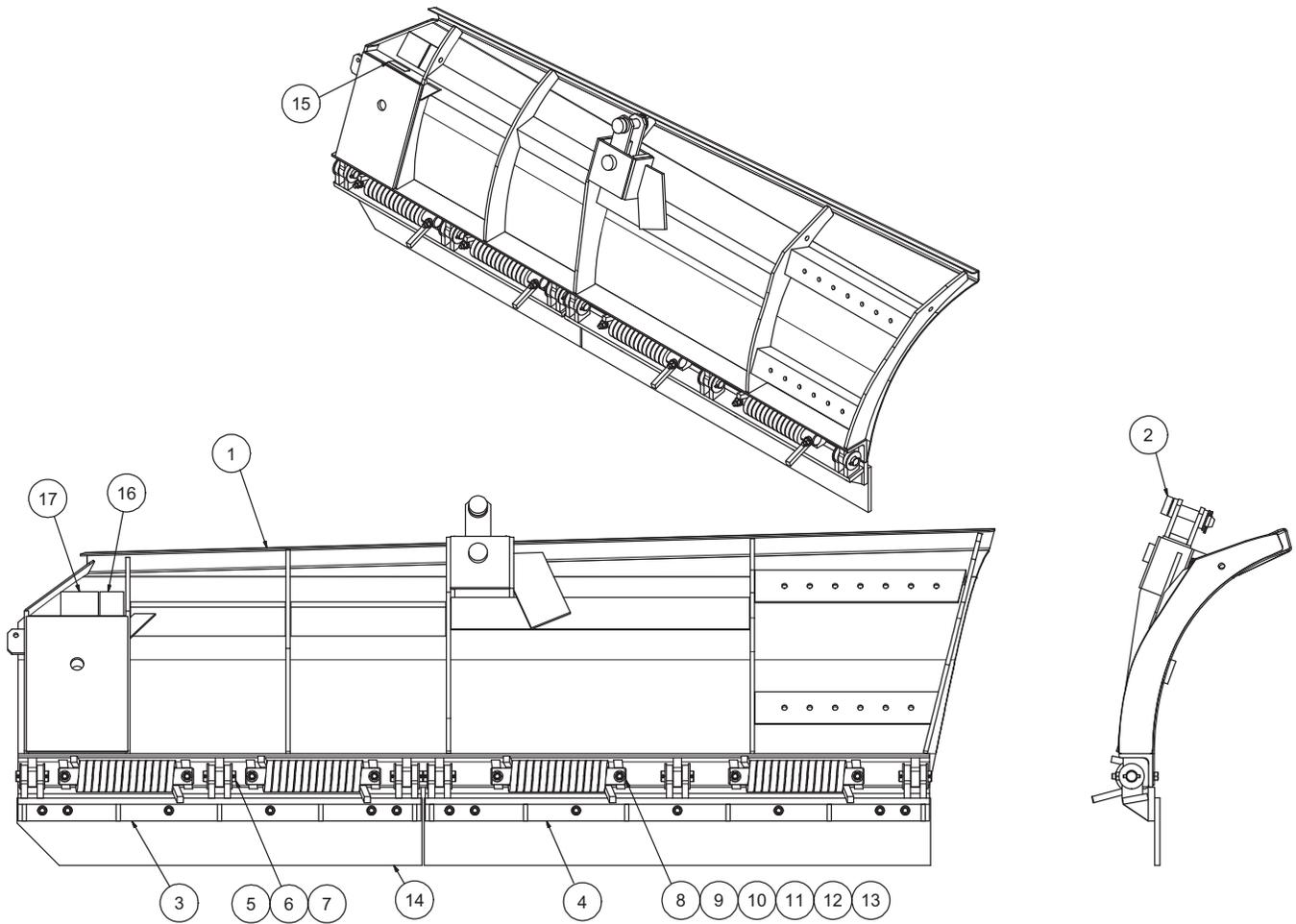
00061576 10' DFWMB, TRIP EDGE, TRIM-LINE, DIRECT HEEL LIFT, 316			
Item	Qty.	Part Number	Description
1	1	00075768	CROSS TUBE WLDMT,TRIM-LINE
2	1	00016331	WING POST ASSY,FR,DF,TRIM-LINE,18 LIFT See page 26
3	1	01130616	MTG BLOCK WLDMT,PATROL WING POST See page 31
4	1	01130707	MTG HDW KIT,DF WING See page 32
5	1	01130620	BOLT 1.50-6 x 6.50 G8 HHCS ZC See page 31
6	1	00139213	MLDBD ASSY,WING,10SFWMB-TE,316 See page 48
7	1	00039725	BRACKET,LOWER PUSHARM,WING MT, See page 39
8	2	00038868	PIPE,MS,2.000xSCH80x41.813
9	1	00107385	MOUNT ASSY,REAR,WING,PATROL,RH See page 40
10	1	05051700	MANUAL,WING,PATROL,HD DBL FUNC
11	1	05003210	CYLINDER,3x15,DA,NIT ROD See page 57
12	1	00055429	STOP KIT,TOE,POST,WING See page 39

00061577 11' DFWMB, TRIP EDGE, TRIM-LINE, DIRECT HEEL LIFT, 316			
Item	Qty.	Part Number	Description
1	1	00075768	CROSS TUBE WLDMT,TRIM-LINE
2	1	00016331	WING POST ASSY,FR,DF,TRIM-LINE,18 LIFT See page 26
3	1	01130616	MTG BLOCK WLDMT,PATROL WING POST See page 31
4	1	01130707	MTG HDW KIT,DF WING See page 32
5	1	01130620	BOLT 1.50-6 x 6.50 G8 HHCS ZC See page 31
6	1	00038180	WING,MLDBD ASSY, 11SFWMB-TE,316 See page 49
7	1	00039725	BRACKET,LOWER PUSHARM,WING MT, See page 39
8	2	00038868	PIPE,MS,2.000xSCH80x41.813
9	1	00107385	MOUNT ASSY,REAR,WING,PATROL,RH See page 40
10	1	05051700	MANUAL,WING,PATROL,HD DBL FUNC
11	1	05003210	CYLINDER,3x15,DA,NIT ROD See page 57
12	1	00055429	STOP KIT,TOE,POST,WING See page 39



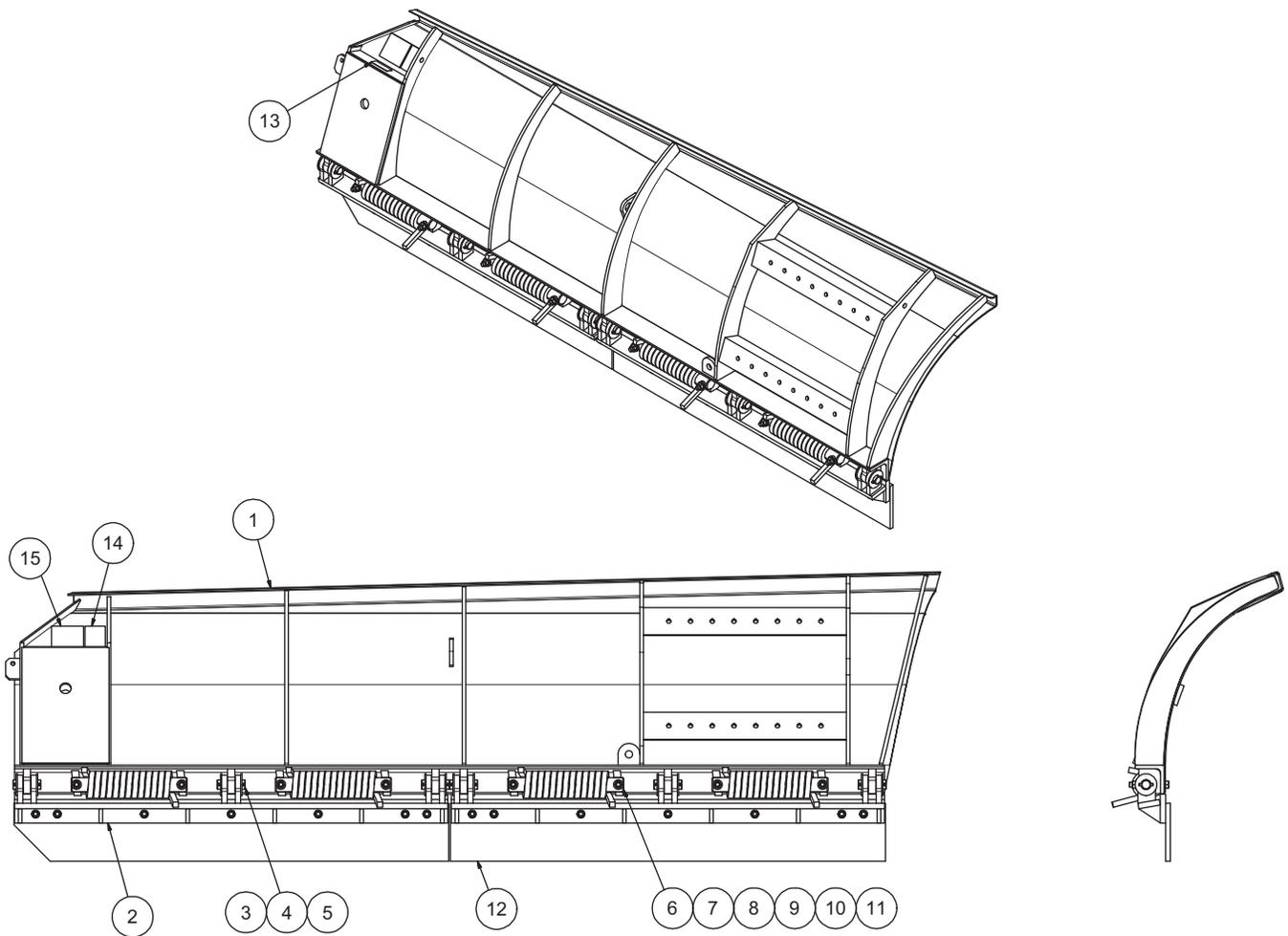
**00138260 MOLDBOARD ASSY, 8DFWMB-TE, 316**

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00138259	MLDBD WLDMT,WING,8DFWMB-TE
2	1	00011711	LINKAGE,FLOAT,DFWMB,6.0 <small>See page 36</small>
3	2	00130527	TRIP EDGE WLDMT,PLOW,4'
4	6	00054787	PIN,1.25 x 3.875,NO HEAD
5	12	05021316	WASHER 1.25 FLAT ZC
6	12	05022039	PIN .313 x 2.000 ROLL ZC
7	4	00130531	PIN,1.938DIAx16.00,NO HEAD
8	8	00128582	SADDLE WASHER,OLET
9	8	05010749	BOLT .625-11 x 5.00 G8 HHCS ZC
10	8	05021017	WASHER .625 FLAT MIL-CARB SAE
11	8	05020837	NUT .625-11 GC TOPLOCK C&W
12	4	05035110	SPRING,TORSION,.750 SQ WIRE
13	1	00061141	CE KIT,8',.625 x 8.0,TE MLDBD <small>See page 50</small>
14	1	05050095	TAG,SERIAL NUMBER, STANDARD
15	1	00055962	DECAL KIT,PLOW/WING <small>See page 37</small>
16	1	05052743	DECAL,CAUTION MODIFY CUTTING



**00138240 MOLDBOARD, 9DFWMB-TE, 316**

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00138239	MLDBD WLDMT,WING,9DFWMB-TE
2	1	00011711	LINKAGE,FLOAT,DFWMB,6.0 <small>See page 36</small>
3	1	00130527	TRIP EDGE WLDMT,PLOW,4'
4	1	00130548	TRIP EDGE WLDMT,PLOW,5'
5	6	00054787	PIN,1.25 x 3.875,NO HEAD
6	12	05021316	WASHER 1.25 FLAT ZC
7	12	05022039	PIN .313 x 2.000 ROLL ZC
8	4	00130531	PIN,1.938DIAx16.00,NO HEAD
9	8	00128582	SADDLE WASHER,OLET
10	8	05010749	BOLT .625-11 x 5.00 G8 HHCS ZC
11	8	05021017	WASHER .625 FLAT MIL-CARB SAE
12	8	05020837	NUT .625-11 GC TOPLOCK C&W
13	4	05035110	SPRING,TORSION,.750 SQ WIRE
14	1	00061142	CE KIT,9',.625 x 8.0,TE MLDBD <small>See page 50</small>
15	1	05050095	TAG,SERIAL NUMBER, STANDARD
16	1	00055962	DECAL KIT,PLOW/WING <small>See page 37</small>
17	1	05052743	DECAL,CAUTION MODIFY CUTTING

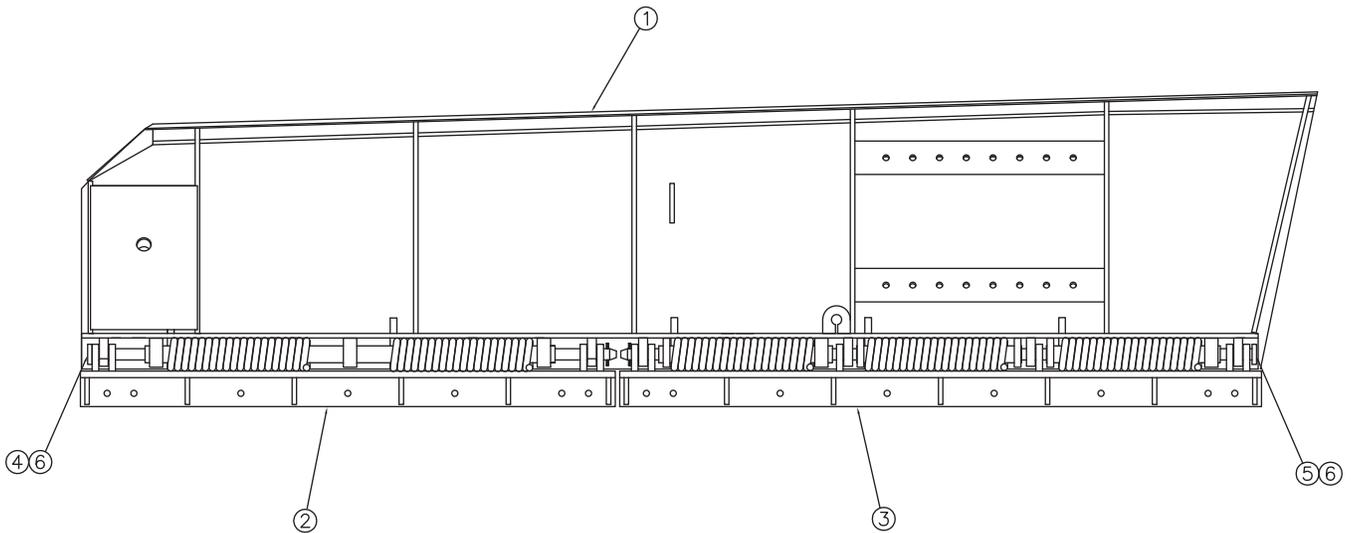


**00139213 MOLDBOARD ASSY, 10SFWMB-TE, 316**

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00139200	MLDBD WLDMT,WING,10SFWMB-TE
2	2	00130548	TRIP EDGE WLDMT,PLOW,5'
3	6	00054787	PIN,1.25 x 3.875,NO HEAD
4	12	05021316	WASHER 1.25 FLAT ZC
5	12	05022039	PIN .313 x 2.000 ROLL ZC
6	4	00130531	PIN,1.938DIAx16.00,NO HEAD
7	8	00128582	SADDLE WASHER,OLET
8	8	05010749	BOLT .625-11 x 5.00 G8 HHCS ZC
9	8	05021017	WASHER .625 FLAT MIL-CARB SAE
10	8	05020837	NUT .625-11 GC TOPLOCK C&W
11	4	05035110	SPRING,TORSION,.750 SQ WIRE
12	1	00061143	CE KIT,10',.625 x 8.0,TE MLDBD <small>See page 50</small>
13	1	05050095	TAG,SERIAL NUMBER, STANDARD
14	1	00055962	DECAL KIT,PLOW/WING <small>See page 37</small>
15	1	05052743	DECAL,CAUTION MODIFY CUTTING

**00038180 MOLDBOARD ASSY, 11SFWMB-TE, 316**

Item	Qty.	Part Number	Description
1	1	00077928	MLDBD SUB ASSY,WING,11SFWMB-TE See below
2	1	05050095	TAG,SERIAL NUMBER,STANDARD
3	1	00055962	DECAL KIT,PLOW/WING See page 37
4	1	00061144	CE KIT,11',.625 x 8.0,TE MLDBD See page 50



**00077928 MOLDBOARD SUB ASSEMBLY, 11SFWMB-TE**

Item	Qty.	Part Number	Description
1	1	00038170	MLDBD WLDMT,WING,11SFWMB-TE
2	1	00037115	TRIP SECTION WLDMT,5'
3	1	00038163	TRIP SECTION WLDMT,6'
4	1	00037116	PIVOT ROD WLDMT,59.250
5	1	00038164	PIVOT ROD WLDMT 70.625 LG
6	1	05022039	PIN, ROLL .313 x 2.000 OA

00061141 CE KIT,8',.625 x 8.0,TE MLDBD			
Item	Qty.	Part Number	Description
1	2	05031070	CUTTING EDGE,.625x8x4',1084,
2	12	05014551	BOLT .625-11 x 2.50 DH PLN
3	12	05021383	WASHER .625 LOCK HVY ZC
4	12	05020270	NUT .625-11 G8 HEX ZC

00061142 CE KIT,9',.625 X 8.0, TE MLDBD			
Item	Qty.	Part Number	Description
1	1	05031071	CUTTING EDGE,.625x8x5',1084,
2	1	05031070	CUTTING EDGE,.625x8x4',1084,
3	13	05014551	BOLT .625-11 x 2.50 DH PLN
4	13	05021383	WASHER .625 LOCK HVY ZC
5	13	05020270	NUT .625-11 G8 HEX ZC

00061143 CE KIT,10',.625x8.0,TE MLDBD			
Item	Qty.	Part Number	Description
1	2	05031071	CUTTING EDGE,.625x8x5',1084
2	14	05014551	BOLT .625-11 x 2.50 G8 DH PLN
3	14	05021383	WASHER .625 LOCK HVY ZC
4	14	05020270	NUT .625-11 G8 HEX ZC

00061144 CE KIT,11',.625 X 8, TE MLDBD			
Item	Qty.	Part Number	Description
1	1	05031072	CUTTING EDGE,.625x8x6',1084
2	1	05031071	CUTTING EDGE,.625x8x5',1084,
3	15	05014551	BOLT .625-11 x 2.50 DH PLN
4	15	05021383	WASHER .625 LOCK HVY ZC
5	15	05020270	NUT .625-11 G8 HEX ZC

# Patrol Wing

## Full Trip Moldboard, Trim-Line Post, Direct Heel Lift

00061558 8' DFWMB, FULL TRIP, TRIM-LINE, DIRECT HEEL LIFT, 316			
Item	Qty.	Part Number	Description
1	1	00075768	CROSS TUBE WLDMT,TRIM-LINE
2	1	00016331	WING POST ASSY,FR,DF,TRIM-LINE See page 26
3	1	00030175	MTG BLOCK ASSY,FULL TRIP See page 53
4	1	00031792	MLDBD ASSY,WING,8SFWMB,316 See page 54
5	1	00039725	BRACKET,LOWER PUSHARM,WING MT, See page 39
6	1	00107385	MOUNT ASSY,REAR,WING,PATROL,RH See page 40
7	2	00038868	PIPE,MS,2.000xSCH80x41.813
8	1	01130707	MTG HDW KIT,DF WING See page 32
9	1	05035025	TENSION SPRING
10	1	05051700	MANUAL,WING,PATROL,HD DBL FUNC
11	1	05003210	CYLINDER,3x15,DA,FOR UPA-FULL See page 57
12	1	00055429	STOP KIT,TOE,POST,WING See page 39

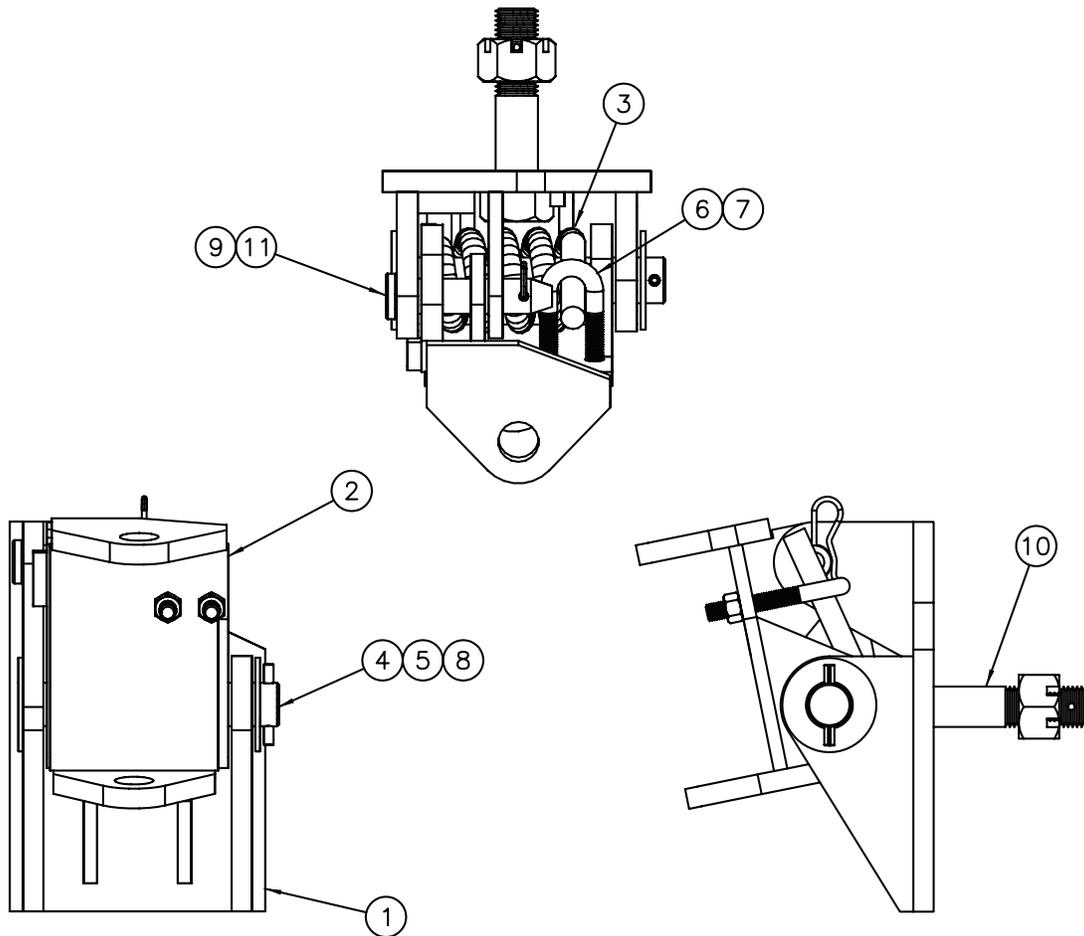
00061559 9' DFWMB, FULL TRIP, TRIM-LINE, DIRECT HEEL LIFT, 316			
Item	Qty.	Part Number	Description
1	1	00075768	CROSS TUBE WLDMT,TRIM-LINE
2	1	00016331	WING POST ASSY,FR,DF,TRIM-LINE See page 26
3	1	00030175	MTG BLOCK ASSY,FULL TRIP See page 53
4	1	00031793	MLDBD ASSY,WING,9SFWMB,316 See page 54
5	1	00039725	BRACKET,LOWER PUSHARM,WING MT, See page 39
6	1	00107385	MOUNT ASSY,REAR,WING,PATROL,RH See page 40
7	2	00038868	PIPE,MS,2.000xSCH80x41.813
8	1	01130707	MTG HDW KIT,DF WING See page 32
9	1	05035025	TENSION SPRING
10	1	05051700	MANUAL,WING,PATROL,HD DBL FUNC
11	1	05003210	CYLINDER,3x15,DA,FOR UPA-FULL See page 57
12	1	00055429	STOP KIT,TOE,POST,WING See page 39

# Patrol Wing

## Full Trip Moldboard, Trim-Line Post, Direct Heel Lift

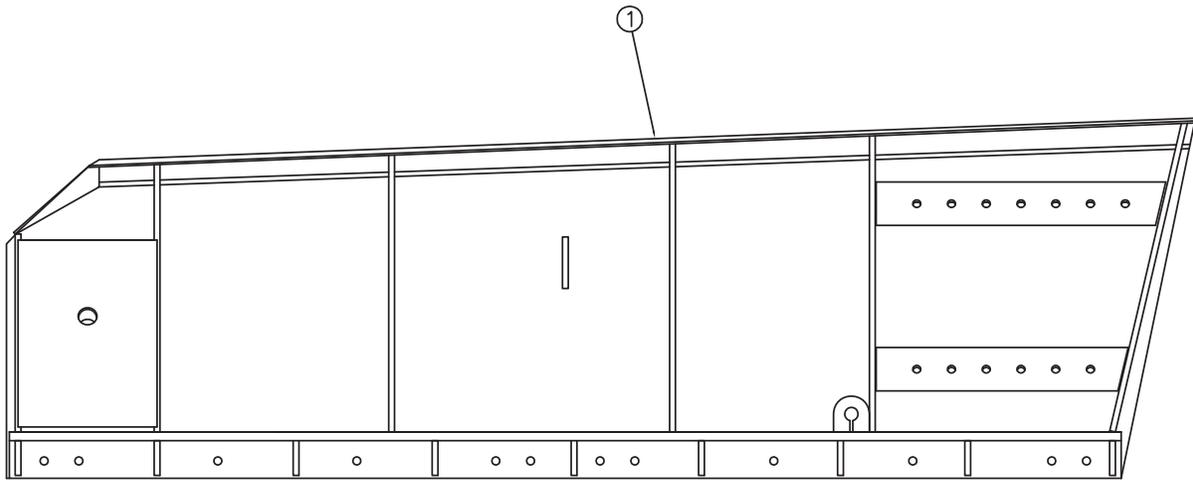
00061560 10' DFWMB, FULL TRIP, TRIM-LINE, DIRECT HEEL LIFT, 316			
Item	Qty.	Part Number	Description
1	1	00075768	CROSS TUBE WLDMT,TRIM-LINE
2	1	00016331	WING POST ASSY,FR,DF,TRIM-LINE See page 26
3	1	00030175	MTG BLOCK ASSY,FULL TRIP See page 53
4	1	00031794	MLDBD ASSY,WING,10SFWMB,316 See page 34
5	1	00039725	BRACKET,LOWER PUSHARM,WING MT, See page 39
6	1	00107385	MOUNT ASSY,REAR,WING,PATROL,RH See page 40
7	2	00038868	PIPE,MS,2.000xSCH80x41.813
8	1	01130707	MTG HDW KIT,DF WING See page 32
9	1	05035025	TENSION SPRING
10	1	05051700	MANUAL,WING,PATROL,HD DBL FUNC
11	1	05003210	CYLINDER,3x15,DA,FOR UPA-FULL See page 57
12	1	00055429	STOP KIT,TOE,POST,WING See page 39

00061561 11' DFWMB, FULL TRIP, TRIM-LINE, DIRECT HEEL LIFT, 316			
Item	Qty.	Part Number	Description
1	1	00075768	CROSS TUBE WLDMT,TRIM-LINE
2	1	00016331	WING POST ASSY,FR,DF,TRIM-LINE See page 26
3	1	00030175	MTG BLOCK ASSY,FULL TRIP See page 53
4	1	00031795	MLDBD ASSY,WING,11SFWMB,316 See page 34
5	1	00039725	BRACKET,LOWER PUSHARM,WING MT, See page 39
6	1	00107385	MOUNT ASSY,REAR,WING,PATROL,RH See page 40
7	2	00038868	PIPE,MS,2.000xSCH80x41.813
8	1	01130707	MTG HDW KIT,DF WING See page 32
9	1	05035025	TENSION SPRING
10	1	05051700	MANUAL,WING,PATROL,HD DBL FUNC
11	1	05003210	CYLINDER,3x15,DA,FOR UPA-FULL See page 57
12	1	00055429	STOP KIT,TOE,POST,WING See page 39

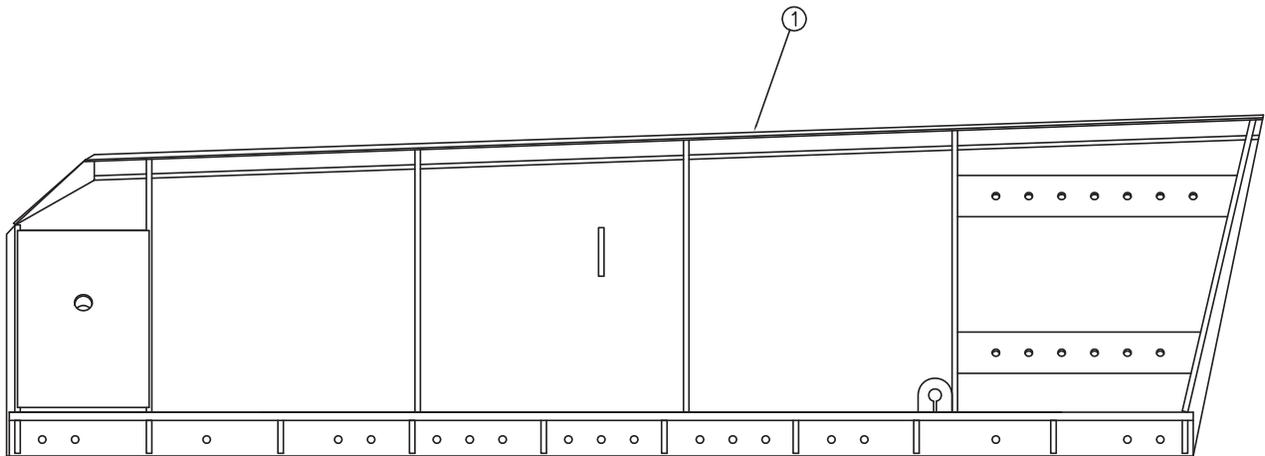


**00030175 MTG BLOCK ASSY,FULL TRIP,PATROL WING**

Item	Qty.	Part Number	Description
1	1	01130680	MTG BLOCK WLDMT,FT,PLOW PORTION
2	1	01130681	MOUNT WLDMT,HALF,FULL TRIP,MTG BLOCK
3	1	05035034	SPRING,TORSION,3.75OD,5.25OAL,.875WIRE
4	1	05021318	WASHER 1.500 FLAT ZC
5	1	01130685	PIVOT PIN WLDMT,FULL TRIP MTG BLOCK
6	1	01130692	U-BOLT,RND, .625-11,1.000x4.781,CRR
7	2	05020837	NUT .625-11 GC TOPLOCK C&W
8	1	05022044	PIN .313 x 3.000 ROLL ZC
9	1	05022002	PIN #8 HAIR .875"-1"PIN,.178 WIRE,3.750
10	1	01130620	BOLT 1.50-6 x 6.50 G8 HHCS ZC
11	1	05022089	PIN 1.250 x 5.500 FLAT HD ZC W/HOLE



00031792 MLDBD ASSY,WING,8DFWMB,316			
Item	Qty.	Part Number	Description
1	1	00028828	MLDBD WLDMT,WING,8SFWMB,316
2	1	05050095	TAG,SERIAL NUMBER,STD
3	1	00055962	DECAL KIT,PLOW/WING See page 37
4	1	00049750	CE KIT,8',.625x8.0,TPCS See page 38



00031793 MLDBD ASSY,WING,9SFWMB,316			
Item	Qty.	Part Number	Description
1	1	00028829	MLDBD WLDMT,WING,9SFWMB,316
2	1	05050095	TAG,SERIAL NUMBER,STD
3	1	00055962	DECAL KIT,PLOW/WING See page 37
4	1	00049751	CE KIT,9',.625x8.0,TPCS See page 38

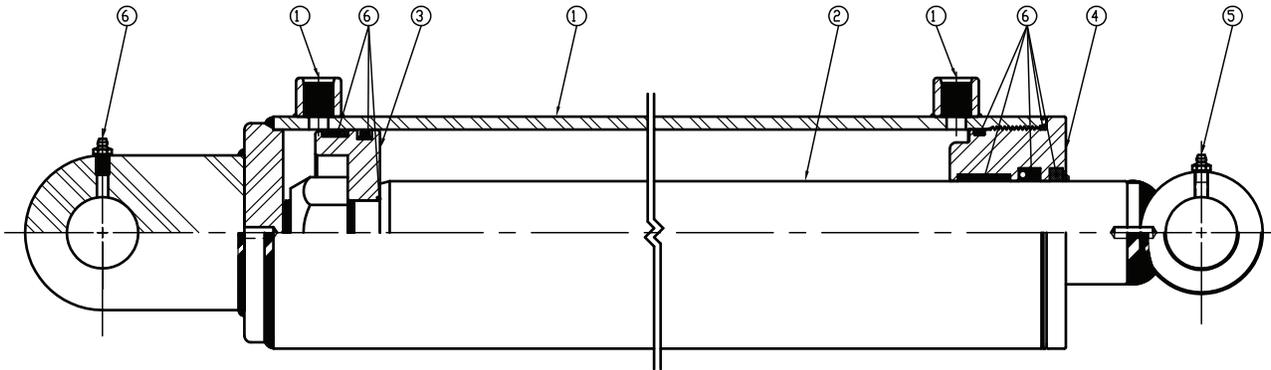
# Cylinders

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## 05002507 CYLINDER, 4 X 21.75, DA

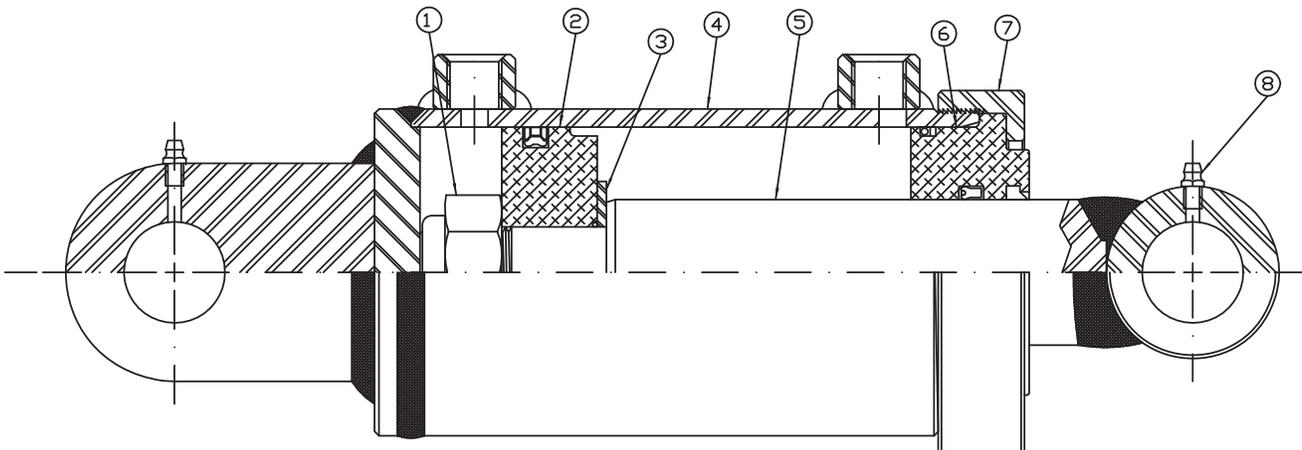
### DIREKT FORCE

ITEM	QTY	PART #	DESCRIPTION
1	1	05003274	BODY SUB ASSY
2	1	05003275	ROD ASSY
3	1	05003276	PISTON
4	1	05003277	GLAND
5	1	05003278	HARDWARE KIT
6	1	05003279	SEAL KIT



### BOBALEE

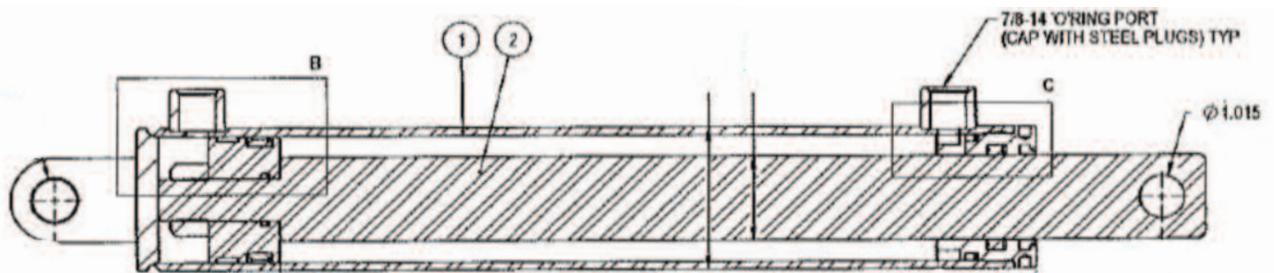
ITEM	QTY	PART #	DESCRIPTION
1	1	05000022	LOCK NUT 1.25-12
2	1	05002625	PISTON
3	1	05002222	PISTON WASHER
4	1	05003280	CASE WELDMENT
5	1	05002627	ROD WELDMENT
6	1	05002628	HEAD
7	1	05002196	THREAD CAP
8	2	05003281	GREASE ZERK
9	1	05002648	SET SCREW .25-20
10	2	05002421	#8 SAE PLUG
11	1	05002508	SEAL KIT



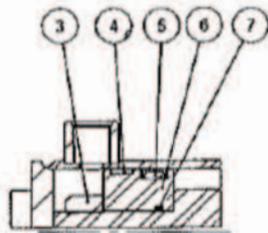
# 05003210 CYLINDER, 3 X 15, DA

**BEST METAL**

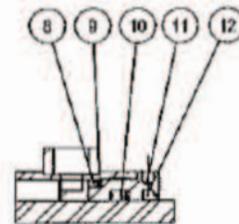
ITEM	QTY	PART #	DESCRIPTION
1	1	N/A	JACKET ASSEMBLY
2	1	N/A	ROD ASSEMBLY
3	1	N/A	TOP LOCK NUT
4	1	*	WEAR RING
5	1	*	DYNAMIC SEAL, CAPPED T-SEAL
6	1	05003356	PISTON, WEAR RING, CAPPED T-SEAL
7	1	*	STATIC SEAL, O-RING
8	1	*	STATIC SEAL, O-RING
9	1	*	STATIC SEAL, BACKUP RING
10	1	*	DYNAMIC SEAL, POLYPAK
11	1	05003355	GLAND NUT
12	1	*	ROD WIPER
		05003225	SEAL KIT (Includes all parts marked with an *)



SECTION A-A



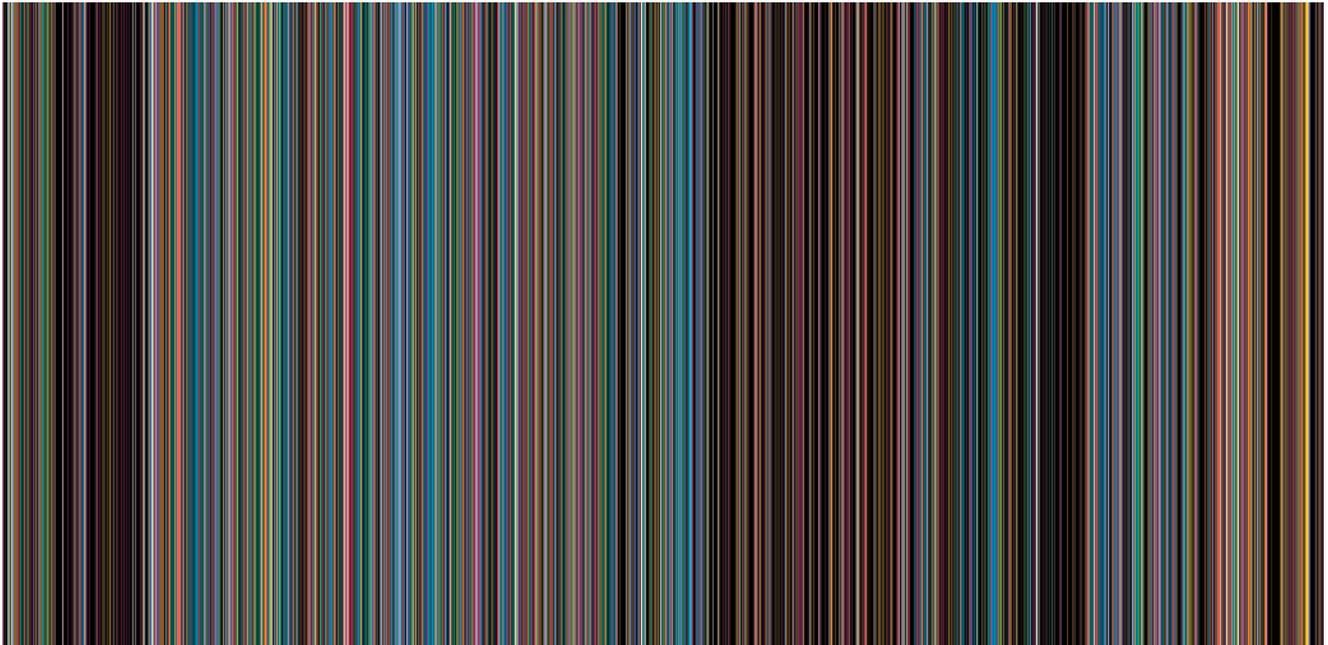
DETAIL B



DETAIL C

# 05002755 CYLINDER, 3x24, DA, NIT, WING TOE, S-LINE POST

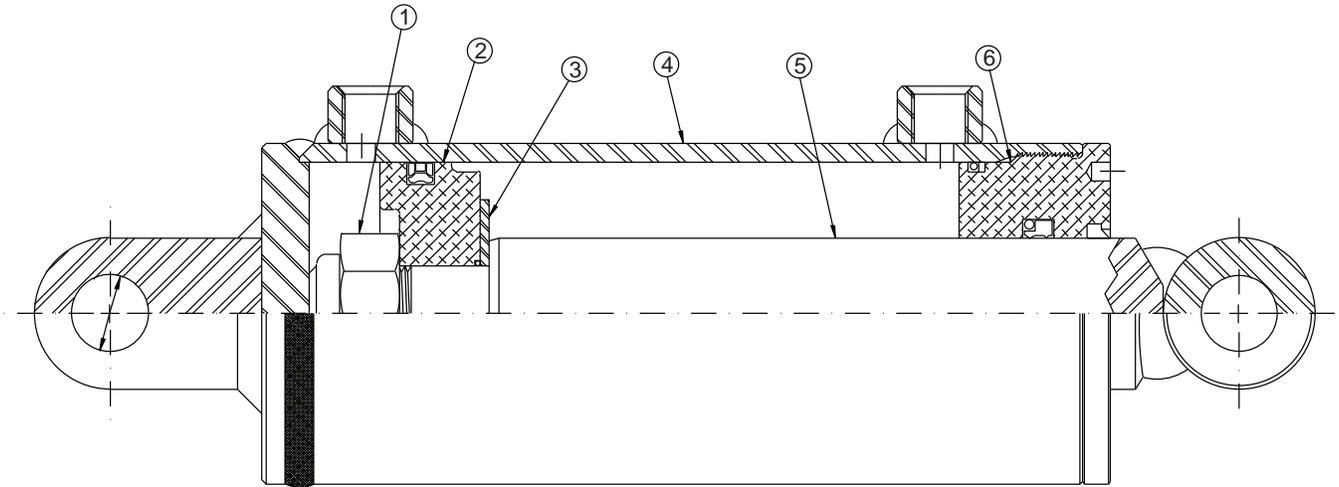
<i>BOBALEE</i>	ITEM	QTY	PART #	DESCRIPTION
	1	1	---	CASE WELDMENT
	2	1	05002695	HEAD
	3	1	05002409	PISTON
	4	1	---	LOCK NUT
	8	1	---	ROD WELDMENT
	9	2	---	SAE STEEL PLUG
	10		---	GREY PRIMER
	11		---	BLACK GLOSS
	12	1	05002780	SEAL KIT
	14	1	---	GREASE ZERK



# 00111662 CYLINDER, MODIFIED, 4 x 14.81, DA

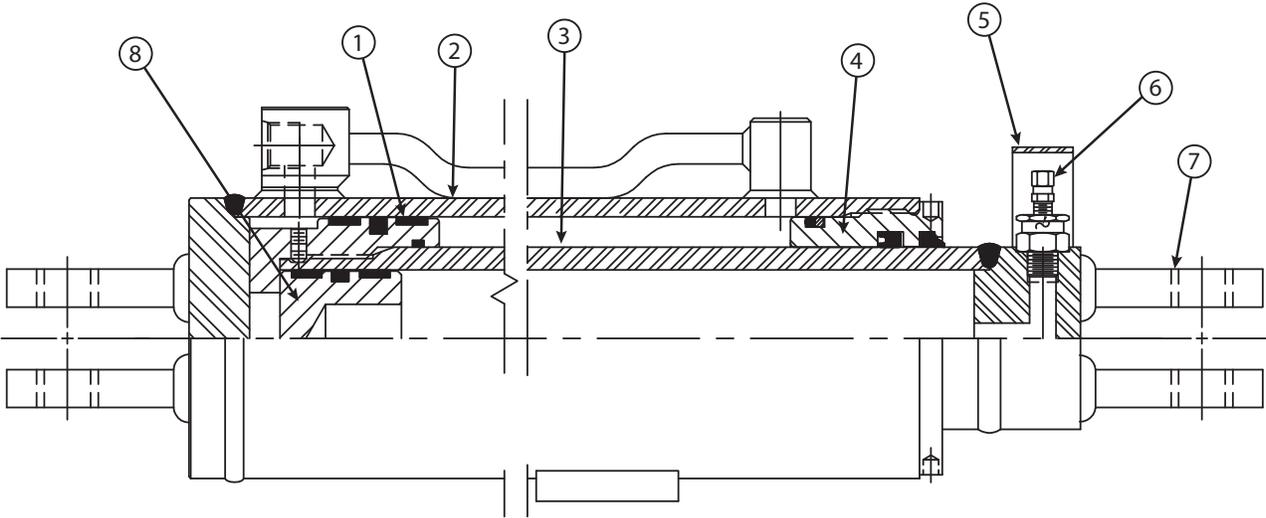
**BOBALEE**

ITEM	QTY	PART #	DESCRIPTION
1	1	05000022	LOCK NUT 1.25-12
2	1	05002687	PISTON
3	1	05002222	PISTON WASHER
4	1	05003282	CASE WELDMENT
5	1	05003283	ROD WELDMENT
6	1	05002805	HEAD
7	1	05002421	#8 SAE PLUGS
8	2	05002690	SEAL KIT



**00111640 CYLINDER, 4 X 28, DA, INTERNAL HYD ACCUMULATOR**

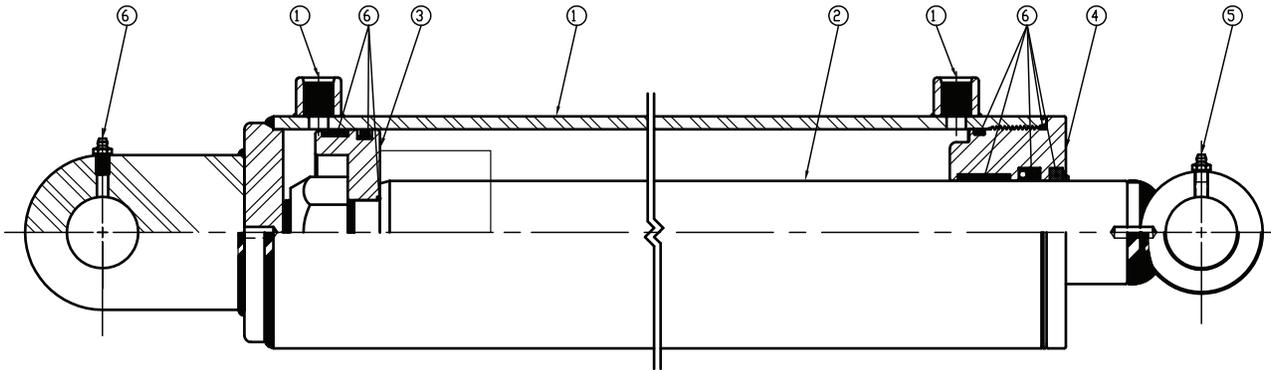
<i>AGRESSIVE HYDRAULICS</i>	ITEM	QTY	PART #	DESCRIPTION
	1	1	05003313	PISTON
	2	1	05003315	CASE WELDMENT
	3	1	05003316	ROD WELDMENT
	4	1	05003312	HEAD
	5	1	05003317	TOP HAT
	6	1	05003318	NITROGEN FILL VALVE
	7	1	05003320	BUSHING
	8	1	05003314	ACCUMULATOR
	9	1	05003319	PLUG, 1/2" NPT (Not Shown)
	10	1	05003310	SEAL KIT (Not Shown)



## 00036951 CYLINDER, MOD, HYD EXT. PUSHARM

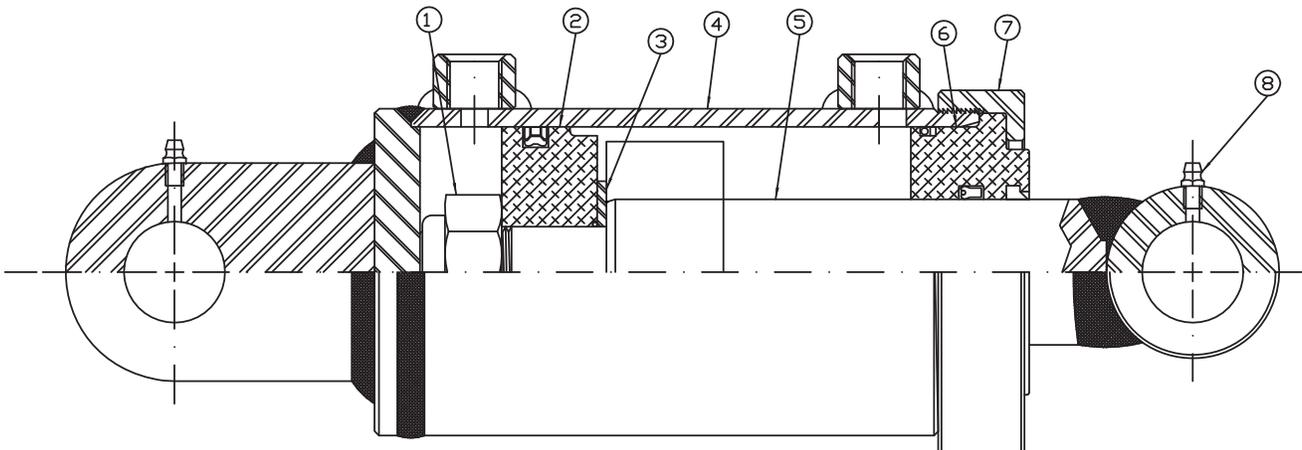
### DIREKT FORCE

ITEM	QTY	PART #	DESCRIPTION
1	1	05003274	BODY SUB ASSY
2	1	05003275	ROD ASSY
3	1	05003276	PISTON
4	1	05003277	GLAND
5	1	05003278	HARDWARE KIT
6	1	05003279	SEAL KIT



### BOBALEE

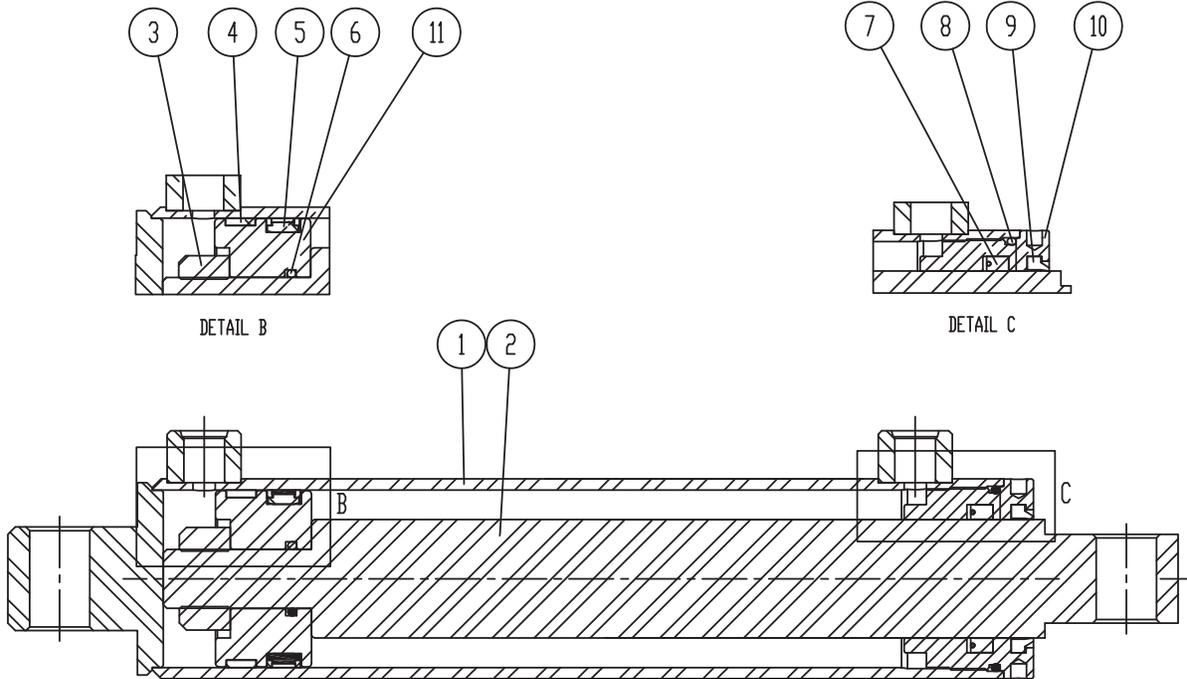
ITEM	QTY	PART #	DESCRIPTION
1	1	05000022	LOCK NUT 1.25-12
2	1	05002625	PISTON
3	1	05002222	PISTON WASHER
4	1	05003280	CASE WELDMENT
5	1	05002627	ROD WELDMENT
6	1	05002628	HEAD
7	1	05002196	THREAD CAP
8	2	05003281	GREASE ZERK
9	1	05002648	SET SCREW .25-20
10	2	05002421	#8 SAE PLUG
11	1	05002508	SEAL KIT



# 05002714 CYLINDER, 3 X 10, DA, LIFT, IN-LINE WITH MOUNT

**BEST METAL**

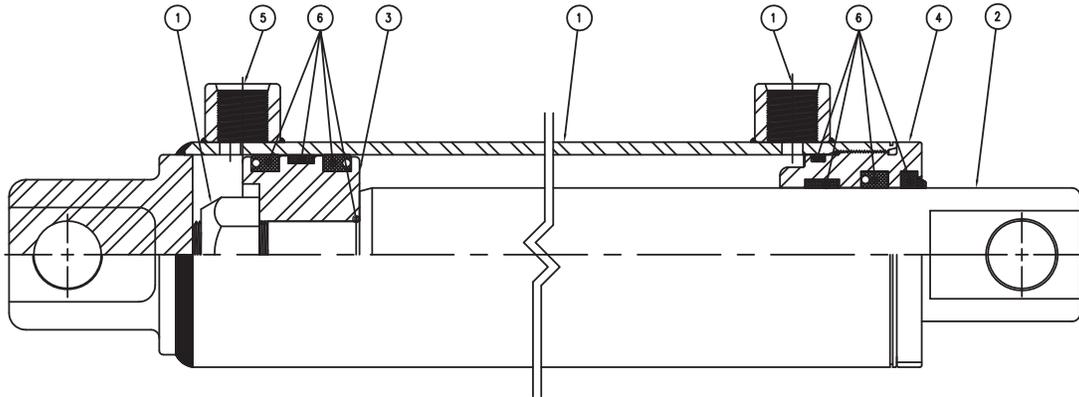
ITEM	QTY	PART #	DESCRIPTION
1	1	N/A	JACKET ASSEMBLY
2	1	N/A	ROD ASSEMBLY, NITROBAR
3	1	N/A	LOCK NUT
4	1	*	WEAR RING
5	1	*	DYNAMIC SEAL
6	1	*	O-RING
7	1	*	POLY PAK
8	1	*	O-RING
9	1	*	ROD WIPER
10	1	05003339	GLAND NUT
11	1	05003340	PISTON, WEAR RING
		05003225	SEAL KIT (Includes all parts marked with an *)



# 05000000 CYLINDER, 3 X 10, DA, REVERSE, NITRATED ROD, POLY PAK

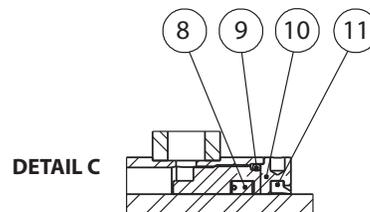
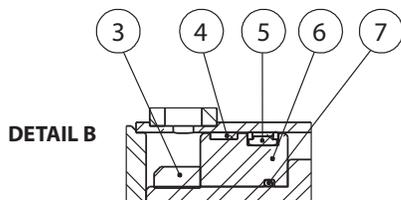
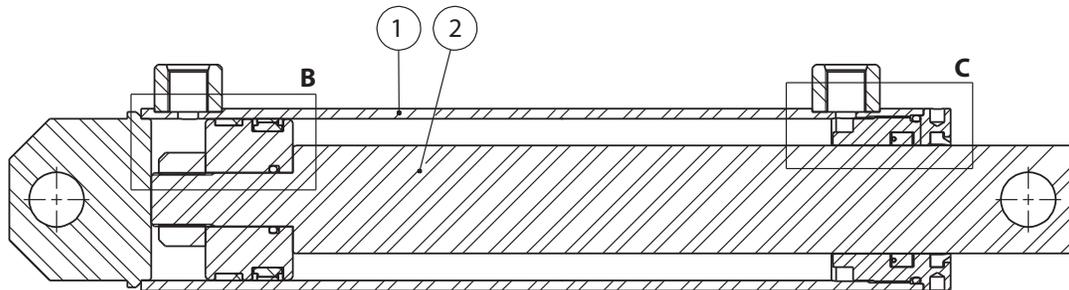
## DIREKT FORCE

ITEM	QTY	PART #	DESCRIPTION
1	1	---	BODY SUB ASSY
2	1	05003252	ROD
3	1	05003253	PISTON
4	1	05003254	GLAND
5	1	---	HARDWARE KIT
6	1	05003269	SEAL KIT



## BEST METAL

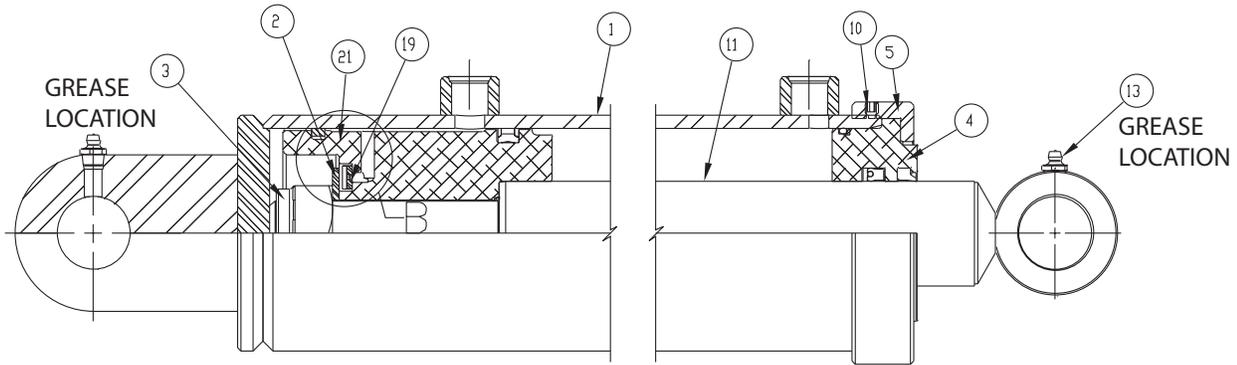
ITEM	QTY	PART #	DESCRIPTION
1	1	N/A	JACKET ASSEMBLY
2	1	N/A	ROD, EXTERNAL
3	1	N/A	LOCK NUT
4	1	*	WEAR RING
5	1	*	DYNAMIC SEAL
6	1	*	PISTON
7	1	*	O-RING
8	1	*	POLY PAK
9	1	*	O-RING
10	1	05003339	GLAND NUT
11	1	05002527	ROD WIPER
		05000013	SEAL KIT (Includes all parts marked with an *)



**05003063 CYLINDER, 4 X 19, DA, NITRIDED**

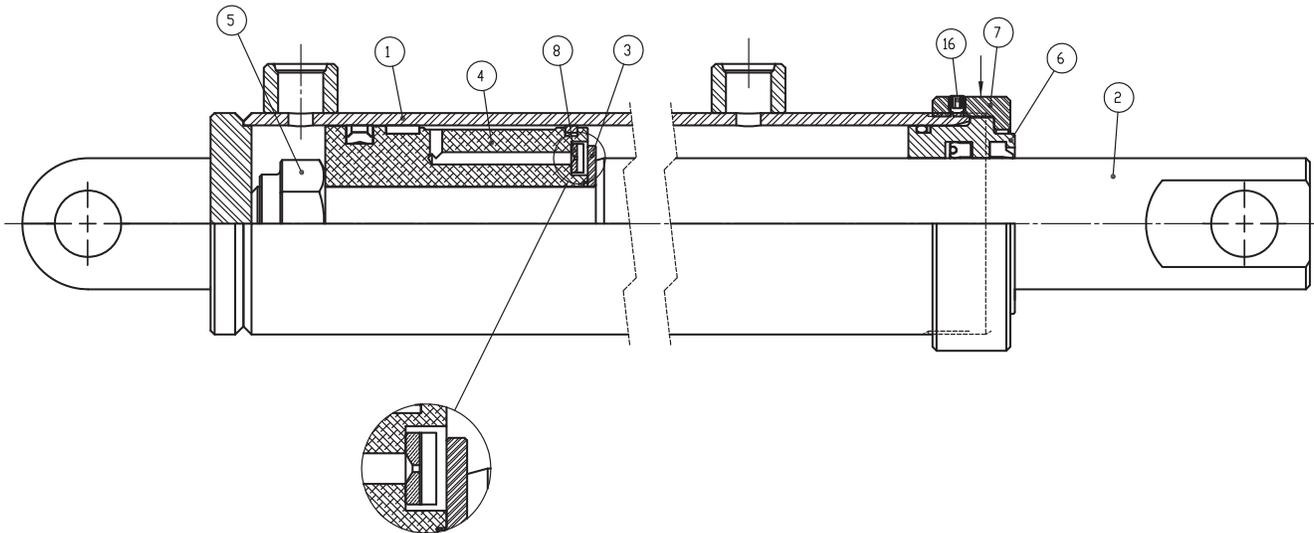
ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	05002781	CASE WELDMENT
2	1	05002222	WASHER
3	1	05000022	LOCK NUT
4	1	05002628	HEAD
5	1	05002196	THREAD CAP
10	1	05002648	SET SCREW, .25-20
11	1	05002784	ROD WELDMENT
13	2	05050003	GREASE ZERK
14	2	05002559	SAE PORT PLUG
15	1	05003072	SEAL KIT

Myriad



## 05002777 CYLINDER, 3x15, DA, DECELL, NITRIDE

BOBALEE	ITEM	QTY	PART #	DESCRIPTION
	1	1	05002830	CASE WELDMENT
	2	1	05002831	ROD
	3	1	05002832	PISTON WASHER
	4	1	05002836	PISTON
	5	1	05002044	LOCK NUT
	6	1	---	HEAD THD CAP
	7	1	05002555	THREAD CAP
	8	1	05002834	ORIFICE PLUG
	9	1	---	O-RING
	10	1	---	WEAR RING
	11	1	05002637	CAPPED T-SEAL
	12	1	---	O-RING
	13	1	---	BACK-UP WASHER
	14	1	---	ROD WIPER
	15	1	---	U-CUP
	16	1	05002648	SET SCREW, .25-20
	17	1	---	3" CAST IRON PLUG
	18	2	05002421	#8 SAE PLASTIC PLUG
	19	1	05002835	SEAL KIT

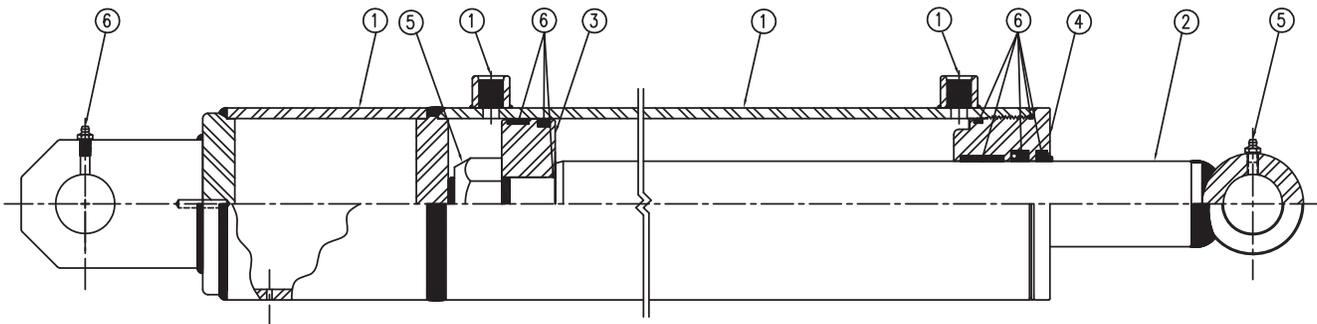


# Optional Heel Lift Cylinder, Front Lift Wing

## 05002898 CYLINDER, 4 X 14, DA, NITRIDE, Z-SEAL

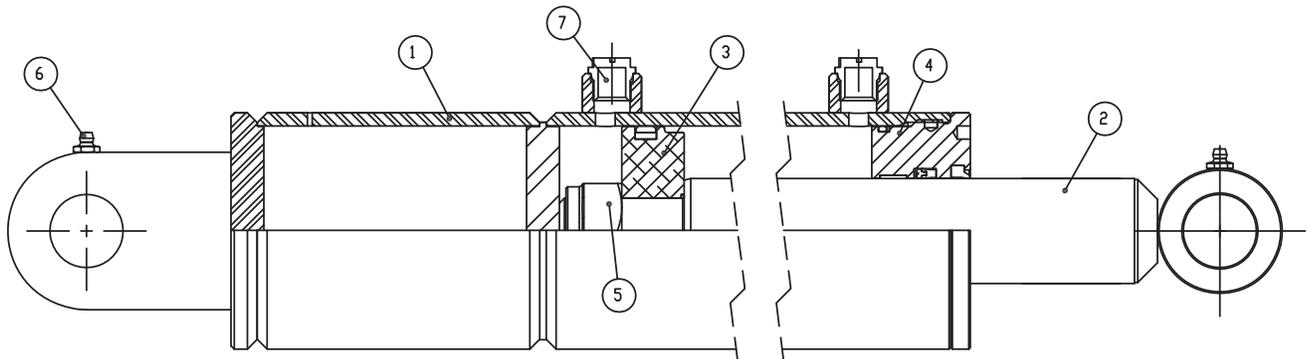
### DIREKT FORCE

ITEM	QTY	PART #	DESCRIPTION
1	1	05003294	BODY SUB ASSY
2	1	05003230	ROD ASSY
3	1	05003231	PISTON
4	1	05003232	GLAND
5	1	05003295	HARDWARE KIT
6	1	05003265	SEAL KIT



### BOBALEE

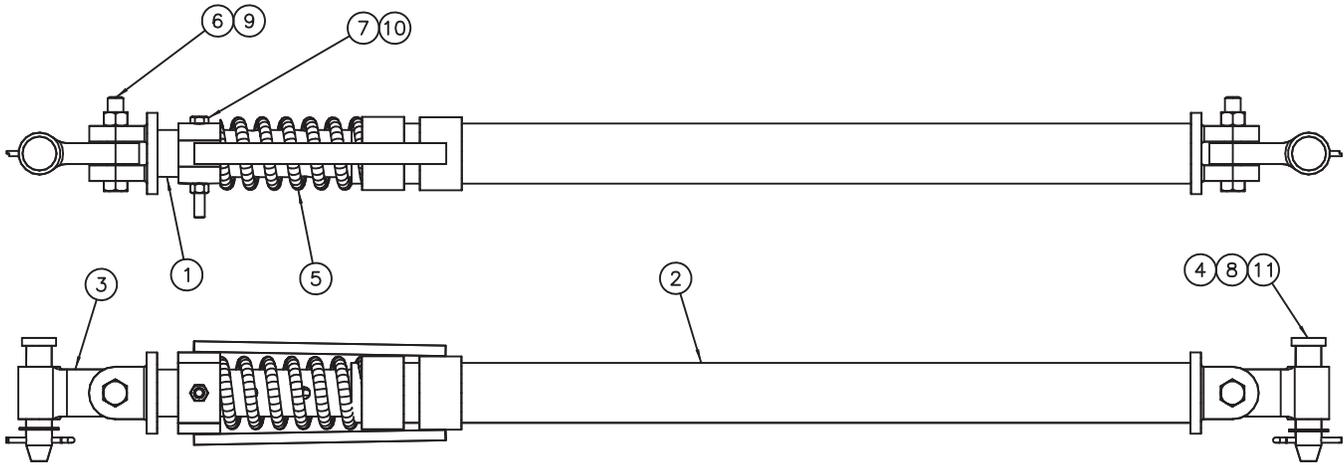
ITEM	QTY	PART #	DESCRIPTION
1	1	05003292	CASE WELDMENT
2	1	05002912	ROD WELDMENT
3	1	05000023	PISTON
4	1	05002913	HEAD
5	1	05000022	LOCK NUT, 1.25-12
6	2	05003293	GREASE ZERK, .125-27
7	2	05002421	#8 SAE PLSRC PLUG
8	1	05002914	SEAL KIT



# Pusharms

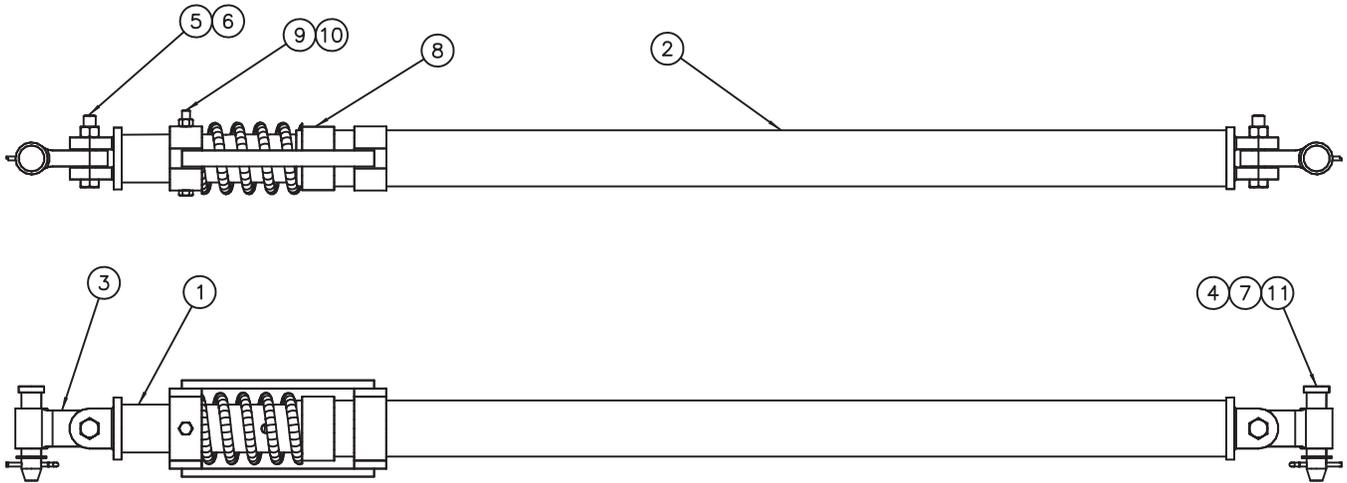
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# Single Pusharm - Fixed & Trip Edge Moldboards



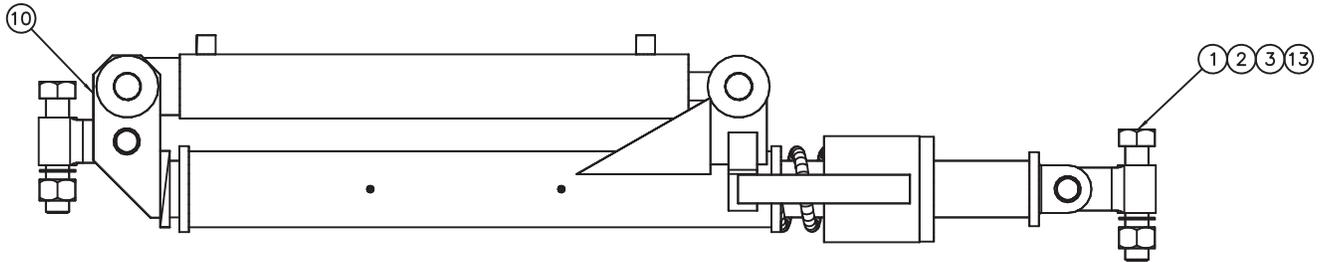
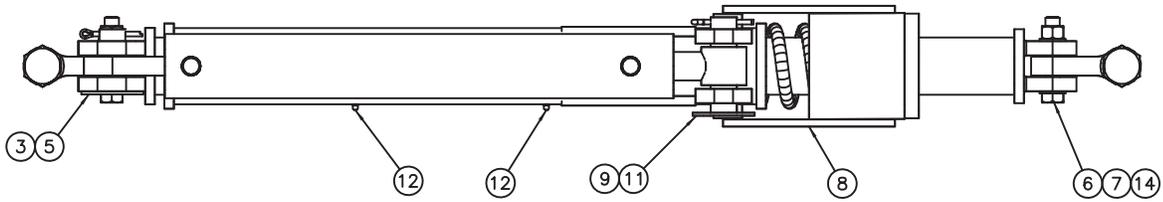
01130974 PUSHARM ASSY,LPA-UPA,2.5 SCHED			
Item	Qty.	Part Number	Description
1	1	01130942	ROD WLDMT,INNER,LOWER WING
2	1	01130944	PIPE WLDMT,OUTER LOWER PUSHARM
3	2	01130925	SWIVEL CONNECTOR,PUSHARM,WING
4	2	05022089	FLAT HEAD PIN
5	1	05035040	CPRSN SPR, 3.500x.563x6.75
6	2	05010772	BOLT .750-10 x 4.00 G8 HHCS ZC
7	1	05010702	BOLT .500-13 x 4.50 G8 HHCS ZC
8	2	05022006	PIN .250 x 2.000 COTTER
9	2	05020849	NUT .750-10 GC TOPLOCK C&W
10	1	05020847	NUT .500-13 GC TOPLOCK C&W
11	2	05021191	BUSHING,MACH,1.88x1.25x14GA,ZC

# Single HD Pusharm - Fixed & Trip Edge Moldboards



00011715 PUSHARM ASSY, LPA, 3.0 SCHEDULE 40 X 72.875			
Item	Qty.	Part Number	Description
1	1	00031737	PUSHARM WLDMT,INNER
2	1	00031744	PUSHARM WLDMT,OUTER
3	2	01130925	SWIVEL CONNECTOR,PUSHARM,WING
4	2	05022089	FLAT HEAD PIN
5	2	05010772	BOLT .750-10 x 4.00 G8 HHCS ZC
6	2	05020849	NUT .750-10 GC TOPLOCK C&W
7	2	05022006	PIN .250 x 2.000 COTTER
8	1	05035039	SPRING,COMP,4.5 OD x 7.125 L
9	1	05010703	BOLT .500-13 x 5.00 G8 HHCS ZC
10	1	05020847	NUT .500-13 GC TOPLOCK C&W
11	2	05021191	BUSHING,MACH,1.88x1.25x14GA,ZC

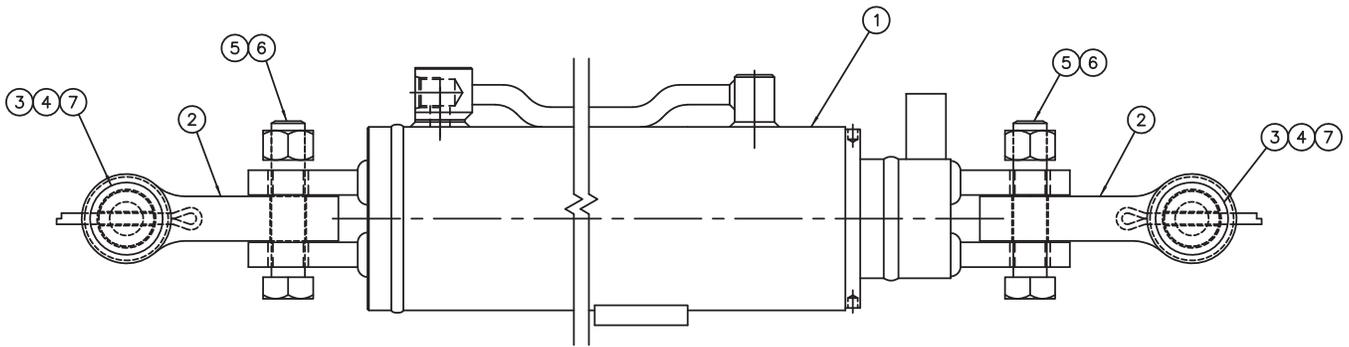
# Single Hyd Ext. Pusharm - Fixed & Trip Edge Moldboards



## 00012677 PUSHARM,LPA-HYD,W/G8 BOLTS,W/HYD EXT CYL

Item	Qty.	Part Number	Description
1	2	01130925	SWIVEL CONNECTOR,PUSHARM,WING
2	2	05010856	BOLT 1.25-7 x 6.00 G8 HHCS ZC
3	2	05020835	NUT 1.25-7 GC TOPLOCK C&W
4	1	00036951	CYLINDER MODIFICATION See page 61
5	1	00045327	PIN WLDMT,HYDRAULIC
6	2	05010772	BOLT .750-10 x 4.00 G8 HHCS ZC
7	2	05020849	NUT .750-10 GC TOPLOCK C&W
8	1	00036952	PUSHARM WLDMT,OUTER,HYDRAULIC
9	1	00045328	PIN WLDMT,HYDRAULIC EXTENDABLE
10	1	00036949	PUSHARM WLDMT,INNER
11	2	05022006	PIN .250 x 2.000 COTTER
12	2	05050003	GREASE FITTING .125 NPT STR
13	2	05021191	BUSHING,MACH,1.88x1.25x14GA,ZC
14	4	05021018	WASHER .750 FLAT MIL-CARB SAE

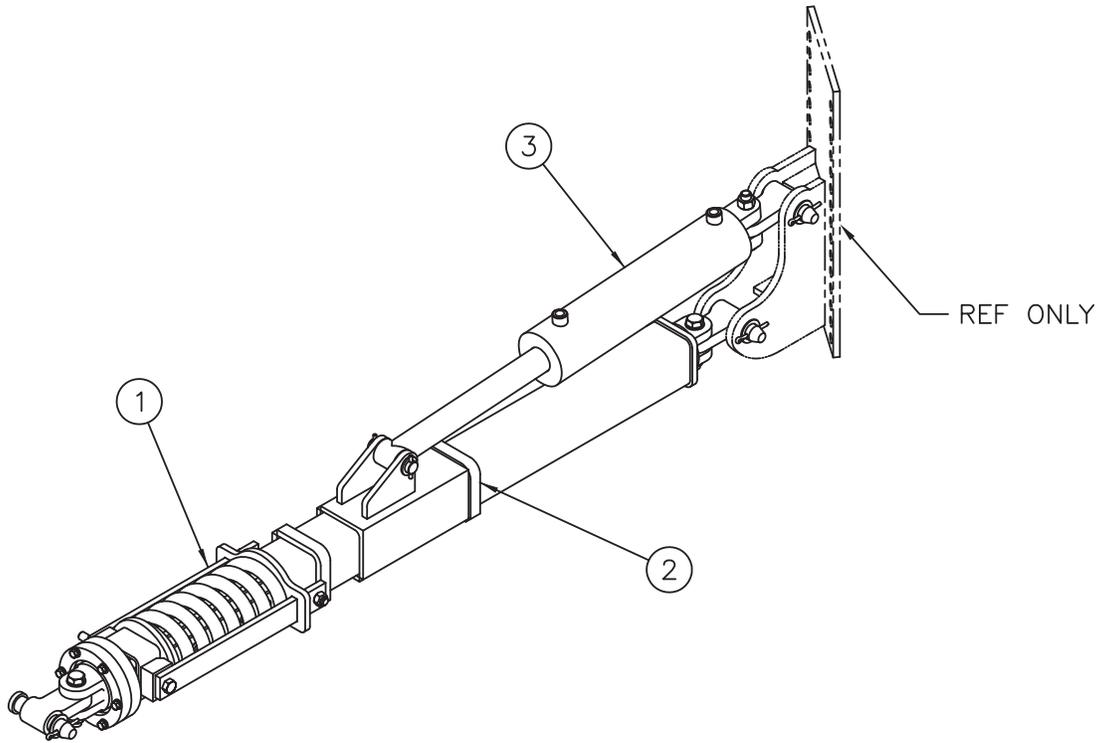
# Cylinder Pusharm - Fixed & Trip Edge Moldboards



## 00119727 EXTENSION CYLINDER WITH BUILT-IN ACCUMULATOR SINGLE PUSHARM

Item	Qty.	Part Number	Description
1	1	00111640	CYLINDER,4x28,DA,CHROME,3ROD,INT HYD ACCUM See page 60
2	2	01130925	SWIVEL CONNECTOR,CAST
3	2	05022089	PIN 1.250 x 5.500 FLAT HD ZC
4	2	05022006	PIN .250 x 2.00 COTTER
5	2	05020849	NUT .750-10 GC TOPLOCK C&W
6	2	05010772	BOLT .750-10 x 4.00 G8 HHCS ZC
7	2	05021191	BUSHING,MACH,1.88x1.25x14GA,ZC

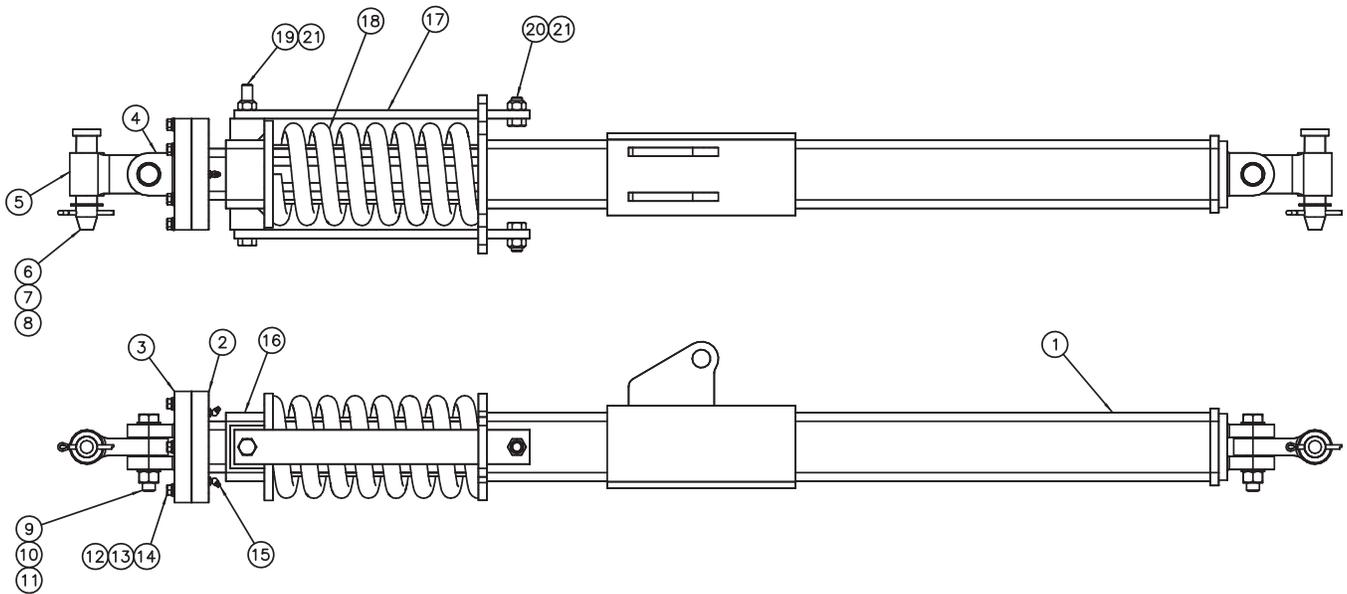
# Single Rear Lift Sq. Tube Pusharm - Fixed & Trip Edge Moldboards



## 00130545 PUSHARM KIT, LPA. SQ TUBE, 64.5, SPRING, REAR HEEL LIFT

Item	Qty.	Part Number	Description
1	1	00012286	PUSHARM ASSY,LPA,SQ TUBE,64.50 See page 73
2	1	00111661	MTG HDW KIT,PUSHARM,LOWER,SQ TUBE See page 74
3	1	00111662	CYLINDER MOD,4x14.81,PUSHARM See page 59

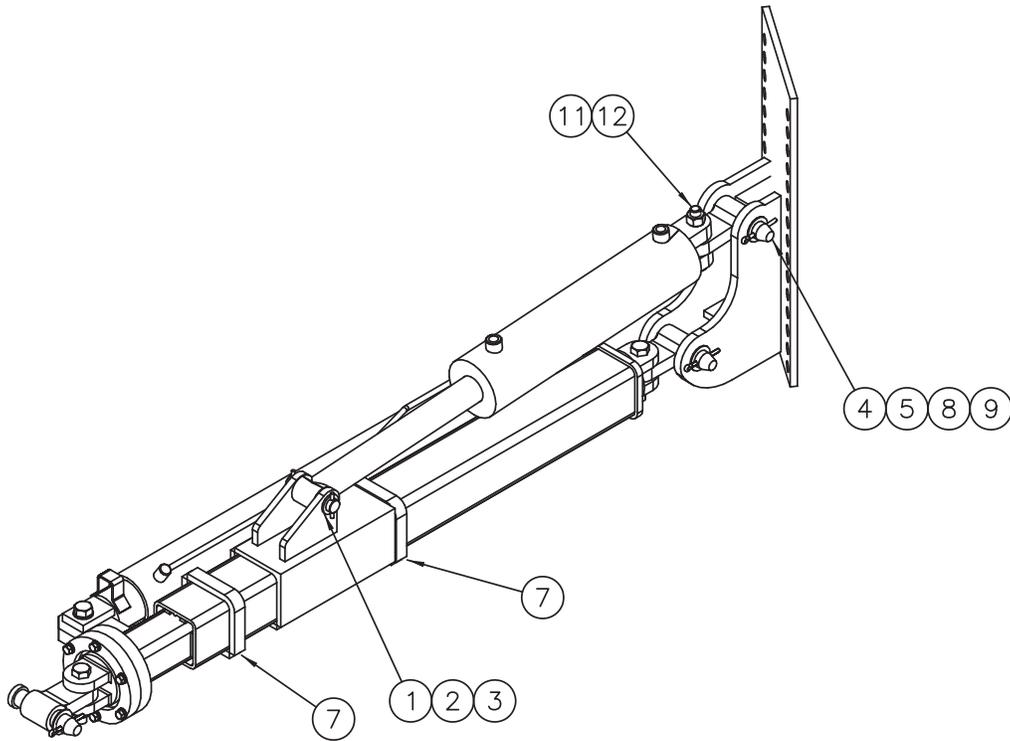
# Single Rear Lift Sq. Tube Pusharm - Fixed & Trip Edge Moldboards



## 00012286 PUSHARM ASSY,LPA,SQ TUBE,64.50,HYD HEEL

Item	Qty.	Part Number	Description
1	1	00127643	PUSHARM WLDMT, OUTER, SQUARE
2	1	00127649	PUSHARM WLDMT, INNER, SQUARE
3	1	00111647	CAP PL, SWIVEL, PUSHARM
4	1	00111649	EAR WLDMT, ATTACHMENT, SWIVEL
5	2	01130925	SWIVEL CONNECTOR, CAST
6	2	05022089	PIN 1.250 x 5.500 FLAT HD ZC
7	2	05022006	PIN .250 x 2.000 COTTER ZC
8	2	05021191	BUSHING, MACH, 1.88x1.25x14GA, ZC
9	2	05010772	BOLT .750-10 x 4.000 G8 HHCS ZC
10	2	05020849	NUT .750-10 GC TOPLOCK C&W
11	4	05021018	WASHER .750 FLAT MIL-CARB SAE
12	6	05010647	BOLT .375-16 x 2.000 G8 HHCS ZC
13	6	05021307	WASHER .375 FLAT ZC
14	6	05021365	WASHER .375 LOCK ZC
15	2	05052044	GREASE ZERK .250-28 45%%D THREADED
16	1	00127650	CAGE WLDMT, SPRING, PUSHARM, SQUARE
17	2	00127654	RETAINER, CAGE, SPRING, PUSHARM
18	1	05035106	SPRING, COMP, 6.0 OD, 12.0 OAL, 1.0 WIRE
19	1	05010756	BOLT .625-11 x 9.00 G8 HHCS ZC
20	2	05010736	BOLT .625-11 x 1.25 G8 HHCS ZC
21	3	05020837	NUT .625-11 GC TOPLOCK C&W

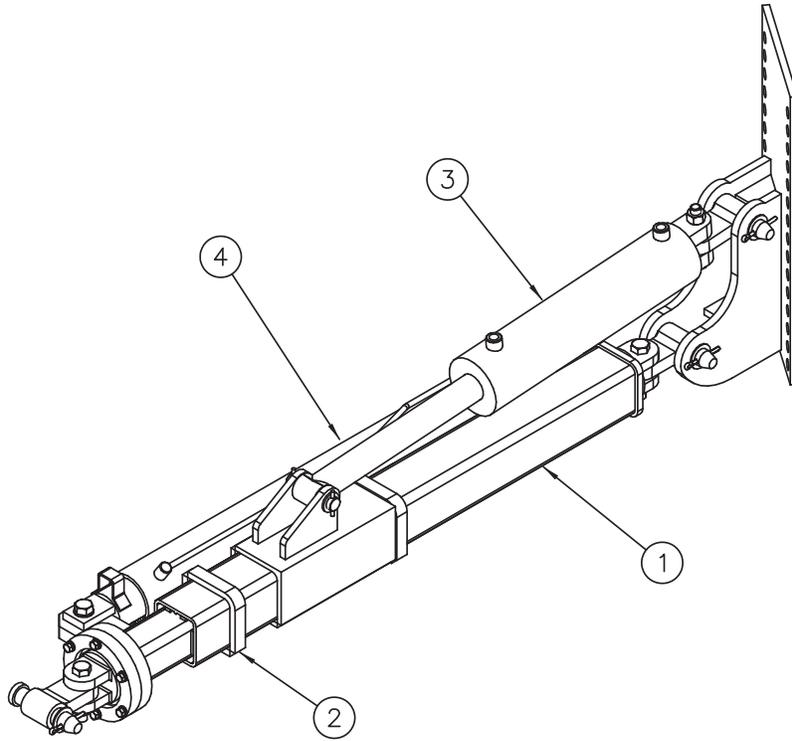
# Single Rear Lift Sq. Tube Pusharm - Fixed & Trip Edge Moldboards



## 00111661 MTG HDW KIT,PUSHARM,LOWER,SQ TUBE

Item	Qty.	Part Number	Description
1	2	05021202	BUSHING,MACH,1.5x1x10GA,ZC,NARROW RIM
2	2	05022026	PIN .250 x 2.000 ROLL ZC
3	1	05022040	PIN 1.000 x 4.250 NO HEAD ZC
4	1	01130969	CYLINDER ATTACHMENT/BOLT BOX
5	1	05022089	PIN 1.250 x 5.500 FLAT HEAD ZC
6	1	05050272	CARDBOARD,BOX,8"x6.5"x2.5"
7	4	00111659	STOP BAR,SLIDE,PUSHARM,SQUARE
8	1	05022006	PIN .250 x 2.000 COTTER ZC
9	1	05021191	BUSHING,MACH,1.88x1.25x14GA,ZC
10	1	05052746	GRAB HOOK,EYE,.375,FORGED,WELD ON
11	1	05010773	BOLT .750-10 x 4.50 G8 HHCS ZC
12	1	05020849	NUT .750-10 GC TOPLOCK C&W

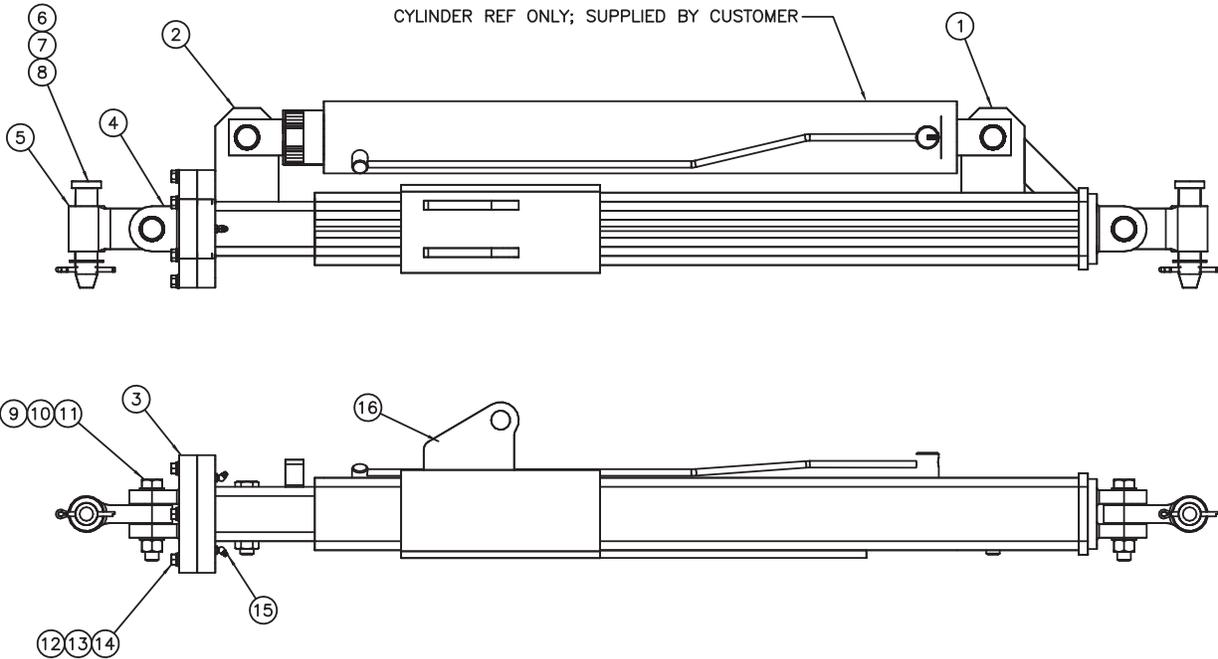
# Single Rear Lift & Ext. Pusharm - Fixed & Trip Edge Moldboards



## 00111663 PUSHARM KIT, LPA, SQ TUBE, 53.75, HYD EXT, REAR HEEL LIFT

Item	Qty.	Part Number	Description
1	1	00111650	PUSHARM ASSY,LPA,SQ TUBE,53.75 See page 76
2	1	00111661	MTG HDW KIT,PUSHARM,LOWER,SQ TUBE See page 74
3	1	00111662	CYLINDER MOD,4x14.81,PUSHARM See page 59
4	1	00111640	CYLINDER,4x28,DA,CHROME,3ROD See page 60

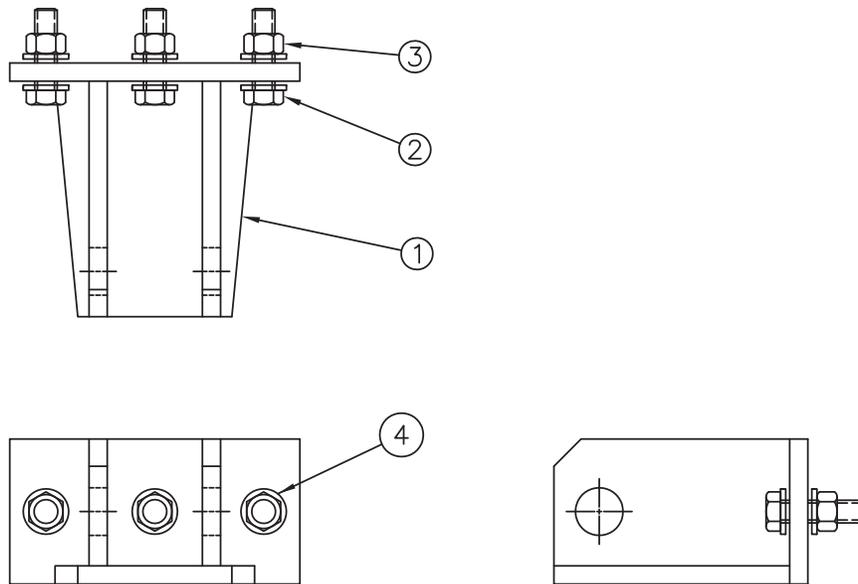
# Single Rear Lift & Ext. Pusharm - Fixed & Trip Edge Moldboards



00111650 PUSHARM ASSY,LPA,SQ TUBE,50.75			
Item	Qty.	Part Number	Description
1	1	00111643	PUSHARM WLDMT,OUTER,HYD EXT PUSHARM
2	1	00111636	PUSHARM WLDMT,INNER,HYD EXT PUSHARM
3	1	00111647	CAP PL,SWIVEL,PUSHARM
4	1	00111649	EAR WLDMT,ATTACHMENT,SWIVEL
5	2	01130925	SWIVEL CONNECTOR,CAST
6	2	05022089	PIN 1.250 x 5.500 FLAT HD ZC
7	2	05022006	PIN .250 x 2.000 COTTER ZC
8	2	05021191	BUSHING,MACH,1.88x1.25x14GA,ZC
9	2	05010772	BOLT .750-10 x 4.000 G8 HHCS ZC
10	2	05020849	NUT .750-10 GC TOPLOCK C&W
11	4	05021018	WASHER .750 FLAT MIL-CARB SAE
12	6	05010647	BOLT .375-16 x 2.000 G8 HHCS ZC
13	6	05021307	WASHER .375 FLAT ZC
14	6	05021365	WASHER .375 LOCK ZC
15	2	05052044	GREASE ZERK .250-28 45%%D THREADED
16	1	00111651	COLLAR WLDMT,SLIDING,PUSHARM,SQUARE

# Dual Pusharm - Fixed & Trip Edge Moldboards

00061185 PUSHARM KIT,DUAL,LPA/UPA			
Item	Qty.	Part Number	Description
1	2	01130974	PUSHARM ASSY,LPA-UPA,2.5 SCHED See page 68
2	1	00039724	BRACKET,UPPER PUSHARM,WING MNT See below



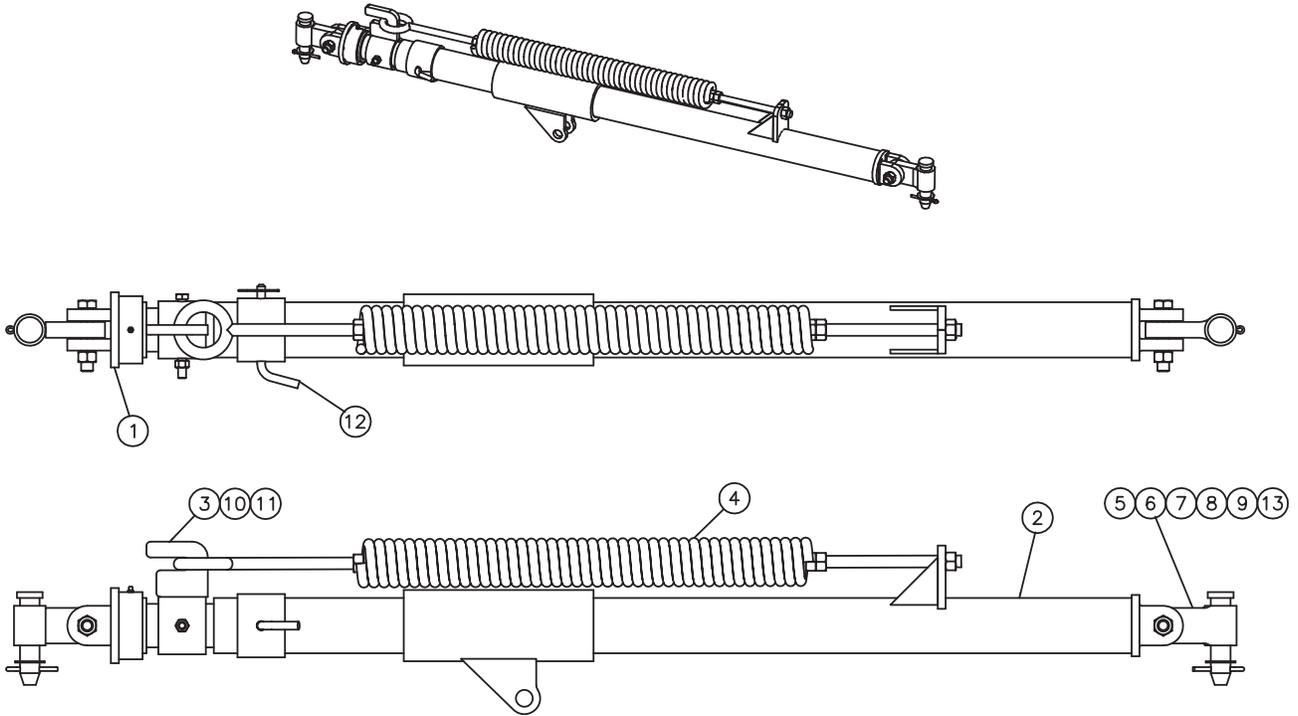
00039724 BRACKET,UPPER PUSHARM,WING MNT			
Item	Qty.	Part Number	Description
1	1	01130962	BRACKET WLDMT,UPPER PUSHARM
2	3	05010741	BOLT .625-11 x 2.50 G8 HHCS ZC
3	3	05020837	NUT .625-11 GC TOPLOCK C&W
4	6	05021017	WASHER .625 FLAT MIL-CARB SAE

# Dual HD Pusharm - Fixed, Trip Edge & Full Trip Moldboards

00061741 PUSHARM KIT,DUAL,FULL TRIP,HD			
Item	Qty.	Part Number	Description
1	1	01130980	MTG HDW KIT,HD,HYDRAULIC LIFT See below
2	1	00039724	BRACKET,UPPER PUSHARM,WING MNT See page 77
3	1	00012422	PUSHARM ASSY,UPA-FT,3.0 SCHED See page 79
4	1	00011715	PUSHARM ASSY,LPA,3.0 SCHED 40 See page 69

01130980 MTG HDW KIT,HD,HYDRAULIC LIFT			
Item	Qty.	Part Number	Description
1	1	01130969	CYLINDER ATTACHMENT, BOLT BOX
2	2	00057617	SPLIT COLLAR/BOLT BOX,HD
3	2	05022040	PIN 1.000 x 4.250 NO HEAD
4	4	05021339	WASHER 1.00 FLAT SAE ZINC
5	4	05022026	PIN .250 x 2.000 OA,ROLL
6	1	05022089	FLAT HEAD PIN
7	1	05050272	CARDBOARD,BOX,8"x6.5"x2.5"
8	1	05022006	PIN .250 x 2.000 COTTER
9	1	05021191	BUSHING,MACH,1.88x1.25x14GA,ZC

# Dual HD Pusharm - Fixed, Trip Edge & Full Trip Moldboards



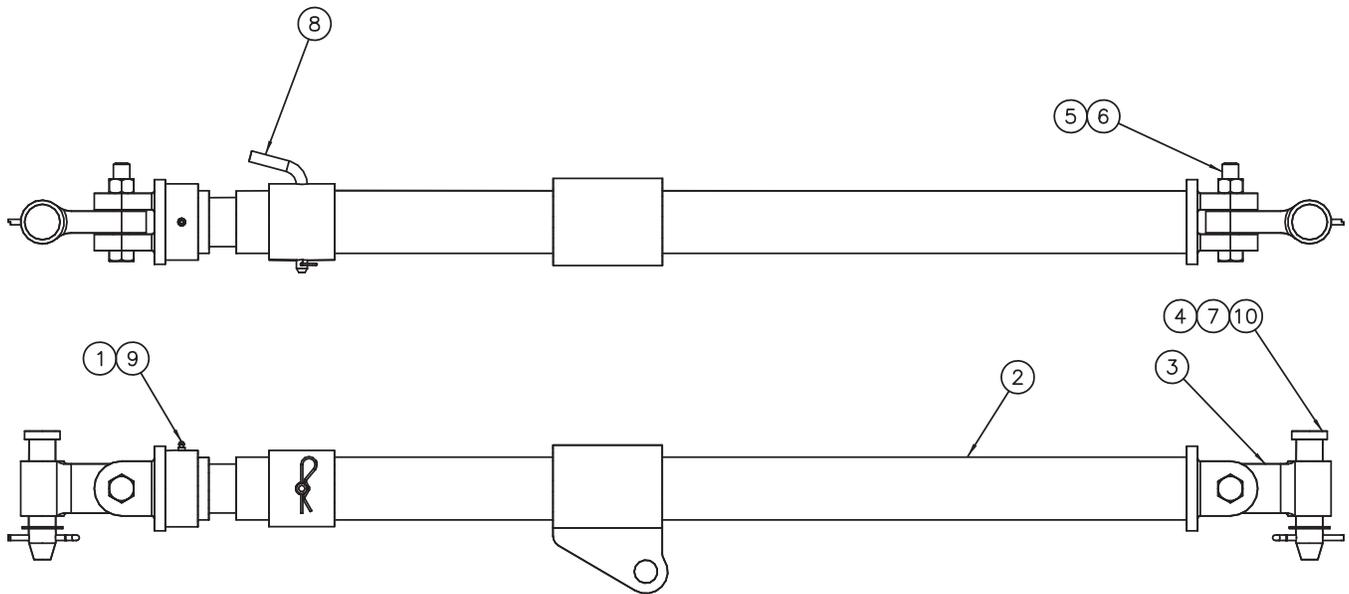
00012422 PUSHARM ASSY,UPA-FT,3.0 SCHED 40,68.00, HYD LIFT			
Item	Qty.	Part Number	Description
1	1	00042281	TUBE WLDMT,INNER HD FULL TRIP
2	1	00042280	PUSHARM WLDMT,OUTER,HDBW,UPA-
3	1	00042282	COLLAR,SPRING MOUNT PUSHARM HD
4	1	00085825	SPRING MODIFICATION,TENSION
5	2	01130925	SWIVEL CONNECTOR,PUSHARM,WING
6	2	05010772	BOLT .750-10 x 4.00 G8 HHCS ZC
7	2	05020849	NUT .750-10 GC TOPLOCK C&W
8	2	05022089	FLAT HEAD PIN
9	2	05022005	PIN,COTTER .250 x 3.000 HITCH
10	1	05010703	BOLT .500-13 x 5.00 G8 HHCS ZC
11	1	05020847	NUT .500-13 GC TOPLOCK C&W
12	1	05022136	PIN .500 x 4.50 4"GRIP BENT ZC
13	2	05021191	BUSHING,MACH,1.88x1.25x14GA,ZC

## Dual Pusharm with Hyd Rear Lift - Fixed & Trip Edge Moldboards

		00062598 PUSHARM KIT,DUAL,HYD LIFT	
Item	Qty.	Part Number	Description
1	1	00043555	MTG HDW KIT,PUSHARM,UPPER See below
2	1	00039724	BRACKET,UPPER PUSHARM,WING MNT See page 77
3	1	01130974	PUSHARM ASSY,LPA-UPA,2.5 SCHED See page 68
4	1	00066157	PUSHARM ASSY,UPA,2.5 SCHED See page 81

		00043555 MTG HDW KIT,PUSHARM,UPPER	
Item	Qty.	Part Number	Description
1	4	05021202	BUSHING,MACH,1.5x1x10GA,ZC,NARROW RIM
2	4	05022026	PIN .250 x 2.000 ROLL ZC
3	2	05022040	PIN 1.00 x 4.25 NO HEAD,ZC
4	1	01130969	CYLINDER ATTACHMENT/BOLT BOX
5	1	05022089	PIN 1.250 x 5.500 FLAT HEAD ZC
6	1	05050272	CARDBOARD,BOX,8"x6.5"x2.5"
7	2	01130971	RING,HALF,SPLIT COLLAR,UPADFFT(4 PCS)
8	2	00098224	BAR .500 x 1.000 x 14.000
9	1	05022006	PIN .250 x 2.00 COTTER
10	1	05021191	BUSHING,MACH,1.88x1.25x14GA,ZC

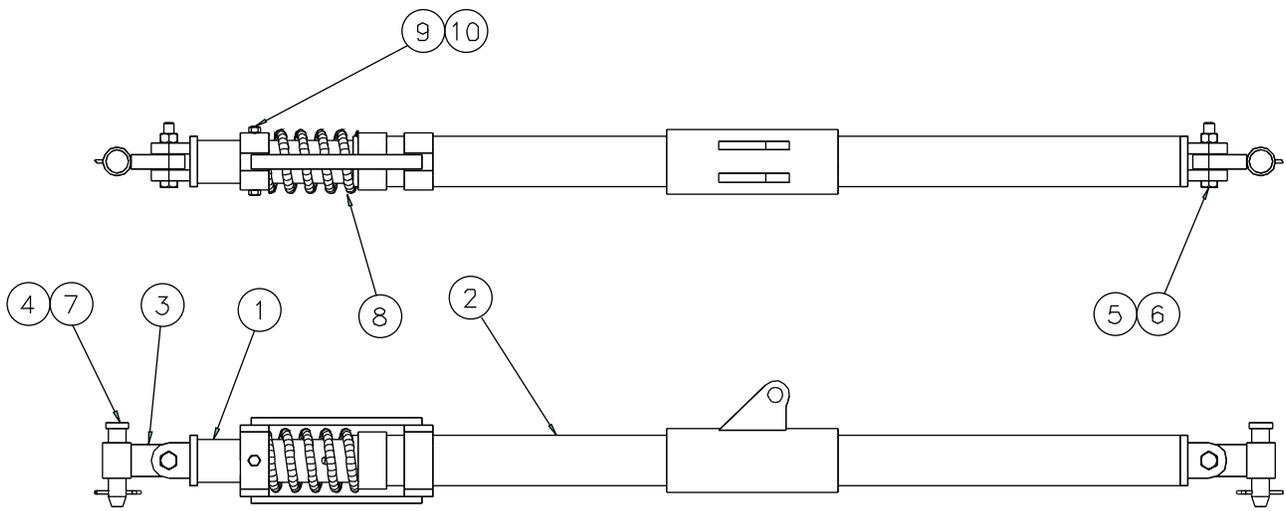
# Dual Pusharm with Hyd Rear Lift - Fixed & Trip Edge Moldboards



00066157 PUSHARM ASSY,UPA,2.5 SCHED 80, 50.75, HYD LIFT			
Item	Qty.	Part Number	Description
1	1	01130921	ROD ASSY,INNER
2	1	00054999	OUTER PIPE WLDMT
3	2	01130925	SWIVEL CONNECTOR,PUSHARM,WING
4	2	05022089	FLAT HEAD PIN
5	2	05010772	BOLT .750-10 x 4.00 G8 HHCS ZC
6	2	05020849	NUT .750-10 GC TOPLOCK C&W
7	2	05022006	PIN .250 x 2.000 COTTER
8	1	05022136	PIN .500 x 4.50 4"GRIP BENT ZC
9	1	05050003	GREASE FITTING .125 NPT STR
10	2	05021191	BUSHING,MACH,1.88x1.25x14GA,ZC

# Dual HD Pusharm with Hyd Rear Lift - Fixed & Trip Edge Moldboards

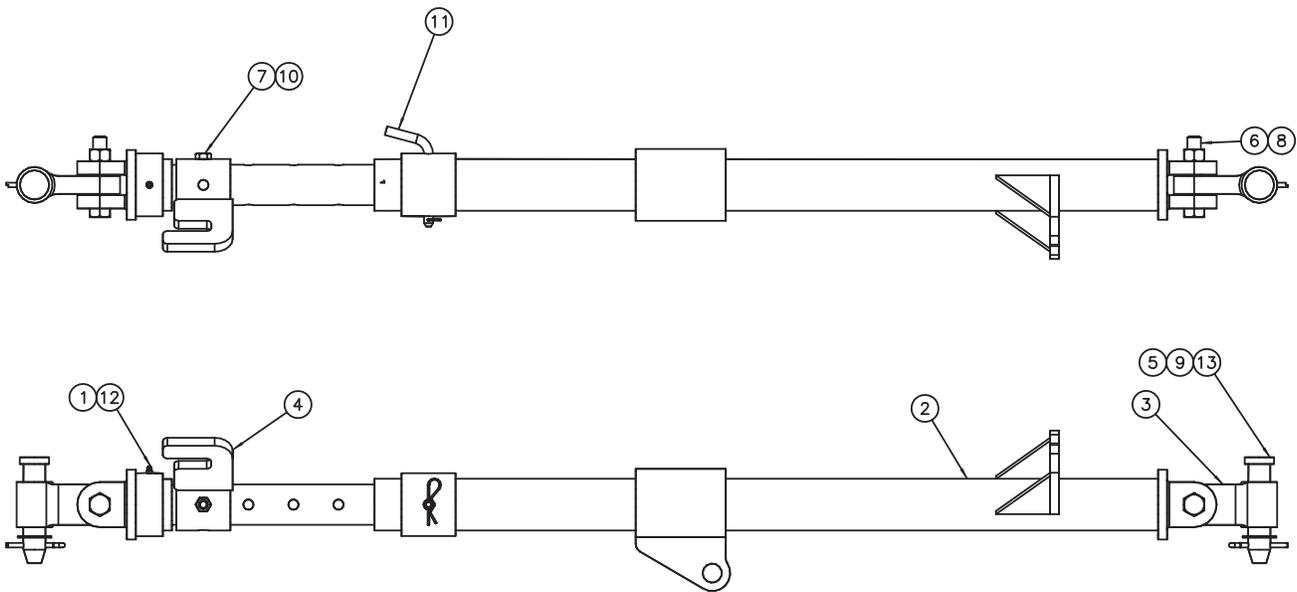
00066154 PUSHARM KIT,DUAL,HD,BENCHING, REAR POST, DIRECT LIFT				
Item	Qty.	Part Number	Description	
1	1	00011715	PUSHARM ASSY,LPA,3.0 SCHED 40	See page 69
2	1	00011716	PUSHARM ASSY,UPA,3.0 SCHED 40	See below
3	1	00039724	BRACKET,UPPER PUSHARM,WING MNT	See page 77
4	1	01130980	MTG HDW KIT,HD,HYDRAULIC LIFT	See page 78



00011716 PUSHARM ASSY,UPA,3.0 SCHED 40				
Item	Qty.	Part Number	Description	
1	1	00031737	PUSHARM WLDMT,INNER	
2	1	00031731	PUSHARM WLDMT,OUTER	
3	2	01130925	SWIVEL CONNECTOR,PUSHARM,WING	
4	2	05022089	FLAT HEAD PIN	
5	2	05010772	BOLT .750-10 x 4.00 G8 HHCS ZC	
6	2	05020849	NUT .750-10 GC TOPLOCK C&W	
7	2	05022006	PIN .250 x 2.000 COTTER	
8	1	05035039	SPRING,COMP,4.5 OD x 7.125 L	
9	1	05010702	BOLT .500-13 x 4.50 G8 HHCS ZC	
10	1	05020847	NUT .500-13 GC TOPLOCK C&W	
11	2	05021191	BUSHING,MACH,1.88x1.25x14GA,ZC	

# Dual Pusharm - Full Trip Moldboard

00061740 PUSHARM KIT,DUAL,FULL TRIP,HYD LIFT			
Item	Qty.	Part Number	Description
1	1	00043555	MTG HDW KIT,PUSHARM,UPPER See page 80
2	1	00039724	BRACKET,UPPER PUSHARM,WING MNT See page 77
3	1	01130977	PUSHARM ASSY,UPA-FT,2.5 SCHED See below
4	1	01130974	PUSHARM ASSY,LPA-UPA,2.5 SCHED See page 68



01130977 PUSHARM ASSY,UPA-FT,2.5 SCHED 80, 60.75, HYD LIFT			
Item	Qty.	Part Number	Description
1	1	01130921	ROD ASSY,INNER
2	1	01130972	PIPE WLDMT,OUTER
3	2	01130925	SWIVEL CONNECTOR,PUSHARM,WING
4	1	01130926	COLLAR,SPRING MOUNT
5	2	05022089	FLAT HEAD PIN
6	2	05010772	BOLT .750-10 x 4.00 G8 HHCS ZC
7	1	05010699	BOLT .500-13 x 3.50 G8 HHCS ZC
8	2	05020849	NUT .750-10 GC TOPLOCK C&W
9	2	05022006	PIN .250 x 2.000 COTTER
10	1	05020847	NUT .500-13 GC TOPLOCK C&W
11	1	05022136	PIN .500 x 4.50 4"GRIP BENT ZC
12	1	05050003	GREASE FITTING .125 NPT STR
13	2	05021191	BUSHING,MACH,1.88x1.25x14GA,ZC

# Options

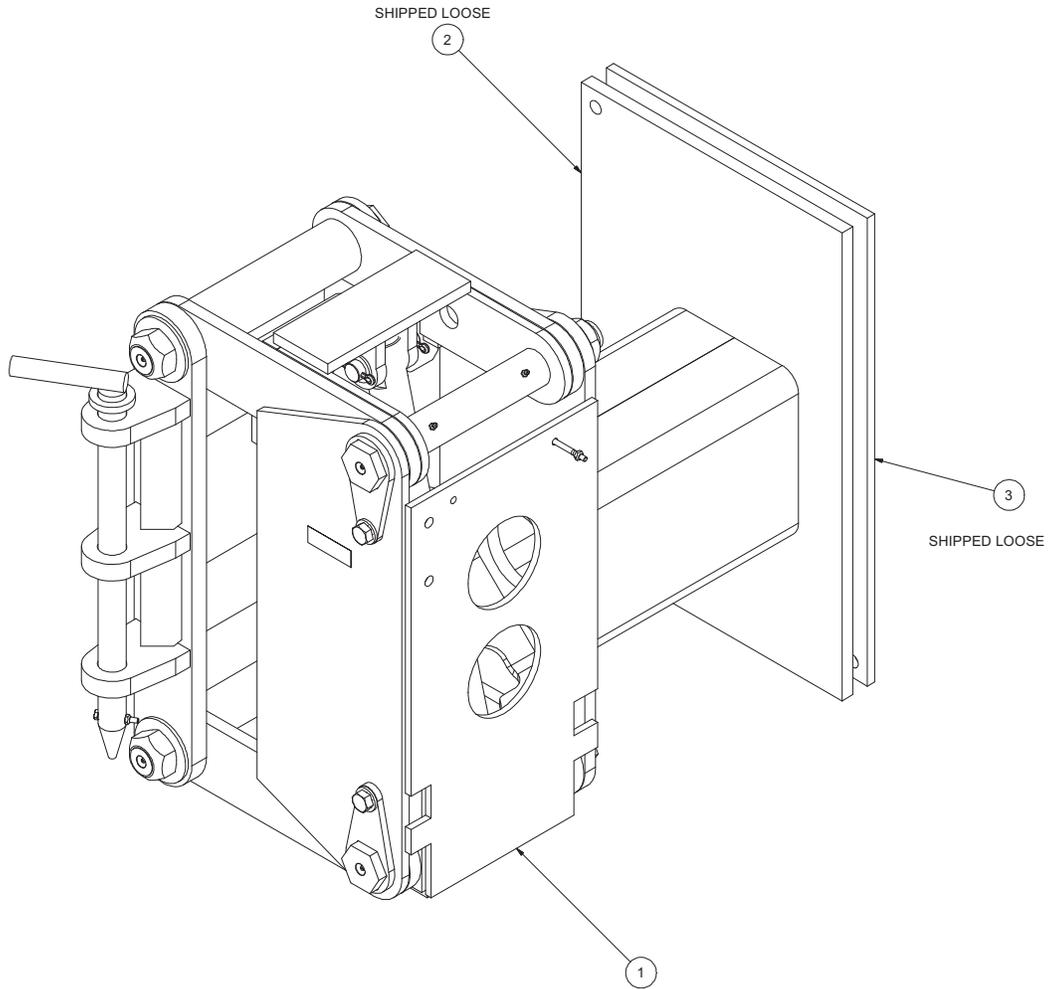
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# Option - Para Glide Wing Mounting Box

00116347 MOUNTING BOX, DF, W/ PARAGLIDE			
Item	Qty.	Part Number	Description
1	1	05051395	CARDBOARD,BOX,12"x8"x7" FOL
2	20	05010740	BOLT .625-11 x 2.25 G8 HHCS ZC
3	28	05020837	NUT .625-11 GC TOPLOCK C&W
4	1	05052746	GRAB HOOK,.375",FORGED
5	1	05021318	WASHER 1.500 FLAT ZC
6	1	05022050	PIN .250 x 2.250 COTTER
7	8	05010741	BOLT .625-11 x 2.50 G8 HHCS ZC
8	2	05053142	GREASE ZERK,.125 NPT,90 DEG
9	2	05051481	FITTING,GREASE LINE,STRAIGHT

00149515 MOUNTING BOX, DF, W/ PARAGLIDE, MM			
Item	Qty.	Part Number	Description
1	1	05051395	CARDBOARD,BOX,12"x8"x7" FOL
2	20	05010740	BOLT .625-11 x 2.25 G8 HHCS ZC
3	8	05010741	BOLT .625-11 x 2.50 G8 HHCS ZC
4	28	05020837	NUT .625-11 GC TOPLOCK C&W
5	1	05052746	GRAB HOOK,.375",FORGED
6	1	05021318	WASHER 1.500 FLAT ZC
7	1	05022050	PIN .250 x 2.250 COTTER
8	2	05053142	GREASE ZERK,.125 NPT,90 DEG
9	2	05051481	FITTING,GREASE LINE,STRAIGHT
10	4	00039713	ANGLE,MS,4.00x3.00x.500x7.000
11	4	05051418	PIPE BALL END
12	4	05010766	BOLT .750-10 x 2.50 G8 HHCS ZC
13	4	05020849	NUT .750-10 GC TOPLOCK C&W
14	8	05021018	WASHER .750 FLAT MIL-CARB SAE

# Option - Para Glide Wing Post, RH



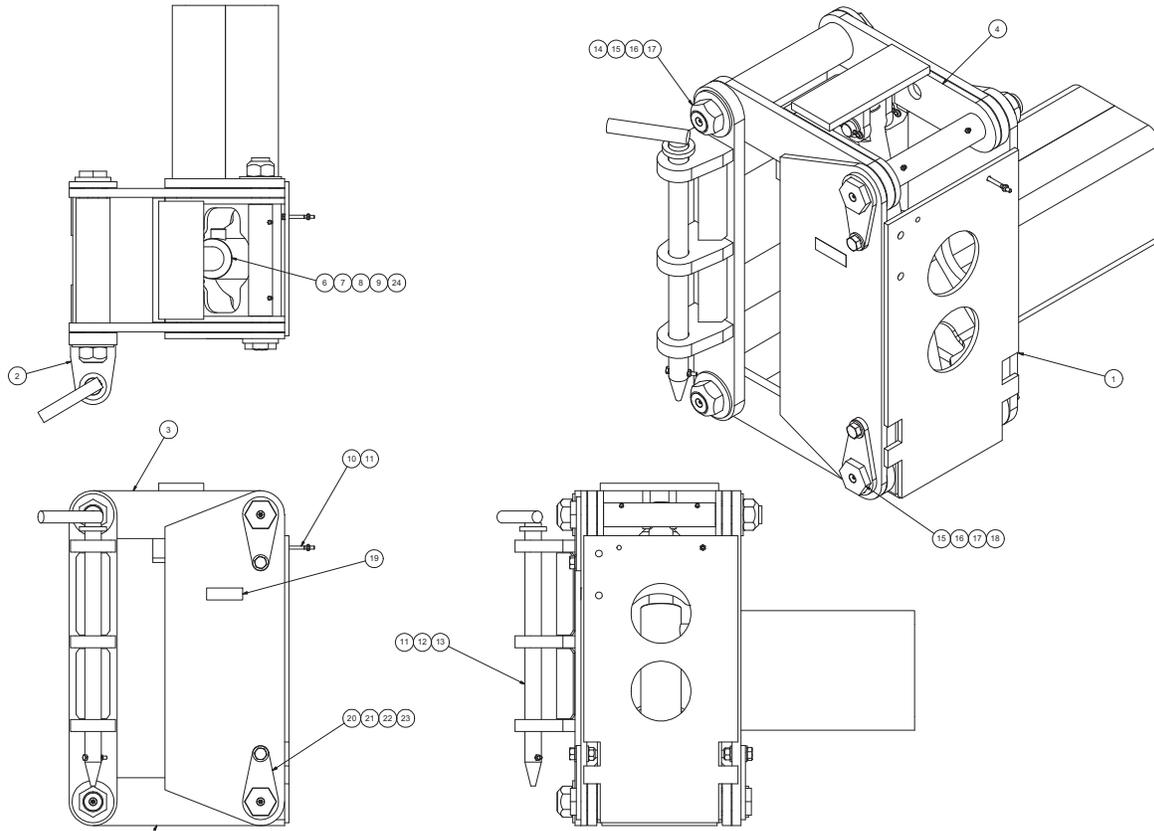
## 00131890 WING POST KIT, RHFR, DF, PARA GLIDE

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00116567	WING POST ASSY,RHFR,DF,PARA See page 87
2	1	00131899	SIDE PLATE,WING,PARA-GLIDE
3	1	00100583	SIDE PLATE,WING,PARA-GLIDE

## 00158122 WING POST KIT, RHMM, DF, PARA

Item	Qty.	Part Number	Description
1	1	00116562	WING POST ASSEMBLY, RHMM, DF, PARA See page 89
2	1	00014619	TUBE, RECT, MS, 6 X 4 X .5 X 58.5
3	2	00158120	SIDE PLATE WING, PARAGLIDE, MM

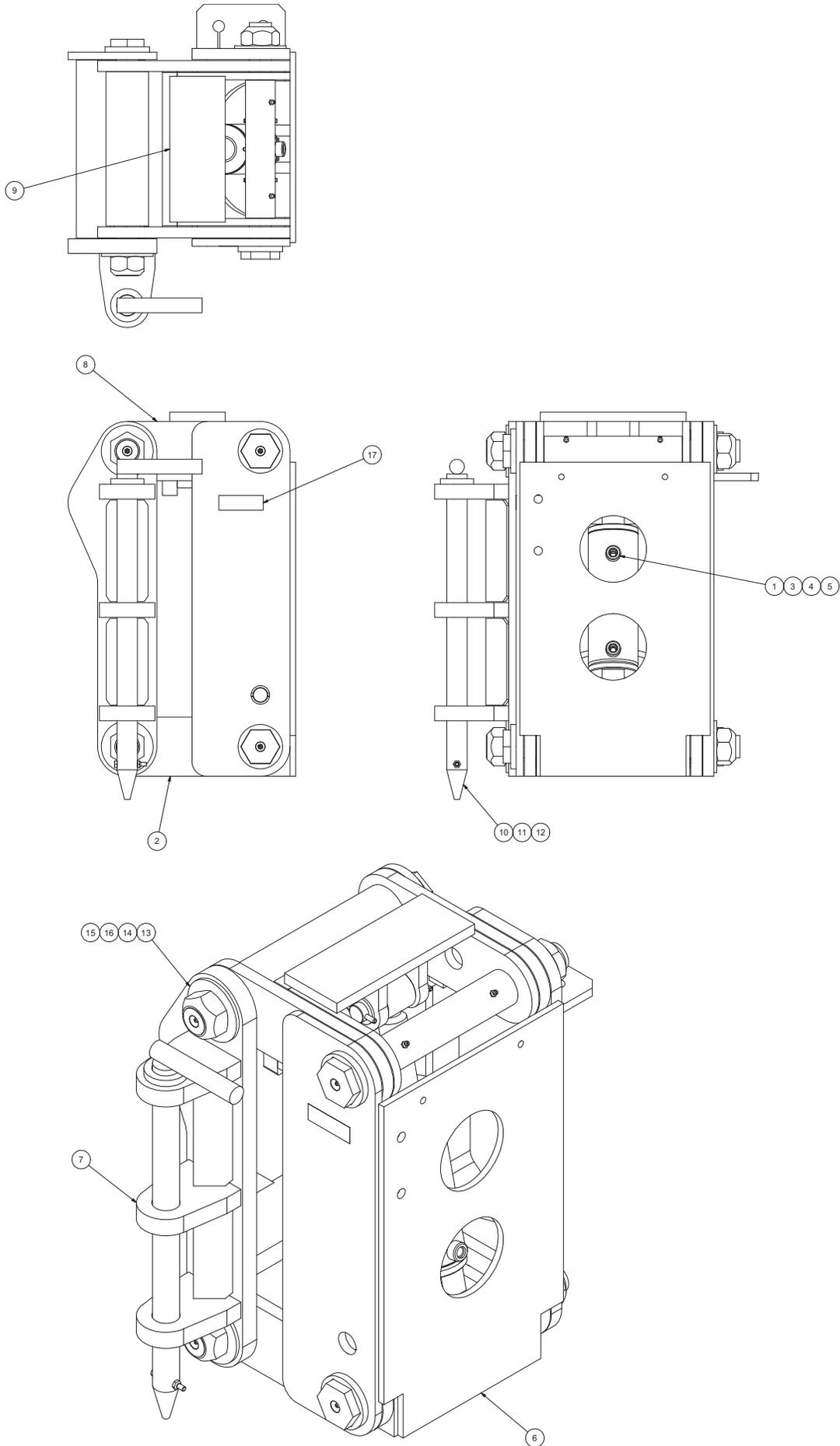
# Option - Para Glide Wing Post, RH (Continued)



## 00116567 WING POST ASSEMBLY, RHFR, DF, PARA

Item	Qty.	Part Number	Description
1	1	00132285	WING POST WLDMT,RHFR,.750
2	1	00132276	ARM WLDMT,LIFT,POST,WING
3	1	00132265	ARM WLDMT,UPPER,POST,.750
4	1	00132287	LINK WLDMT,FLOAT,POST,WING
5	1	00132289	ARM WLDMT,LOWER,POST,.750
6	4	05021202	BUSHING 1.50x1.00x10GA ZC
7	1	05022040	PIN 1.000 x 4.250 NO HEAD
8	1	00018157	PIN 1.000 x 4.500,NO HEAD,ZC
9	1	05002714	CYLINDER,3x10,DA,LIFT,.75 ORB See page 62
10	1	05010599	BOLT .250-20 x 2.50 G8 HHCS ZC
11	2	05020899	NUT .250-20 GC TOPLOCK C&W
12	1	01130613	ATTACHMENT PIN WLDMT,BLOCK
13	1	05010597	BOLT .250-20 x 2.00 G8 HHCS ZC
14	3	00136886	BOLT,PARAGLIDE,15.125
15	8	05050288	GREASE ZERK,.250-28 STRAIGHT
16	3	05021318	WASHER 1.500 FLAT ZC
17	5	05020806	NUT 1.50-6 GC TOPLOCK C&W
18	2	00136892	BOLT,PARAGLIDE,3.875
19	1	05053301	DECAL,1"X4", WHITE/BLACK, PARA
20	3	00145557	BOLT HOLDER,HEX,1.50,BOLT-ON
21	3	05010740	BOLT .625-11 x 2.25 G8 HHCS ZC
22	6	05021017	WASHER .625 FLAT MIL-CARB SAE
23	3	05020837	NUT .625-11 GC TOPLOCK C&W
24	4	05022050	PIN .250 x 2.250 COTTER

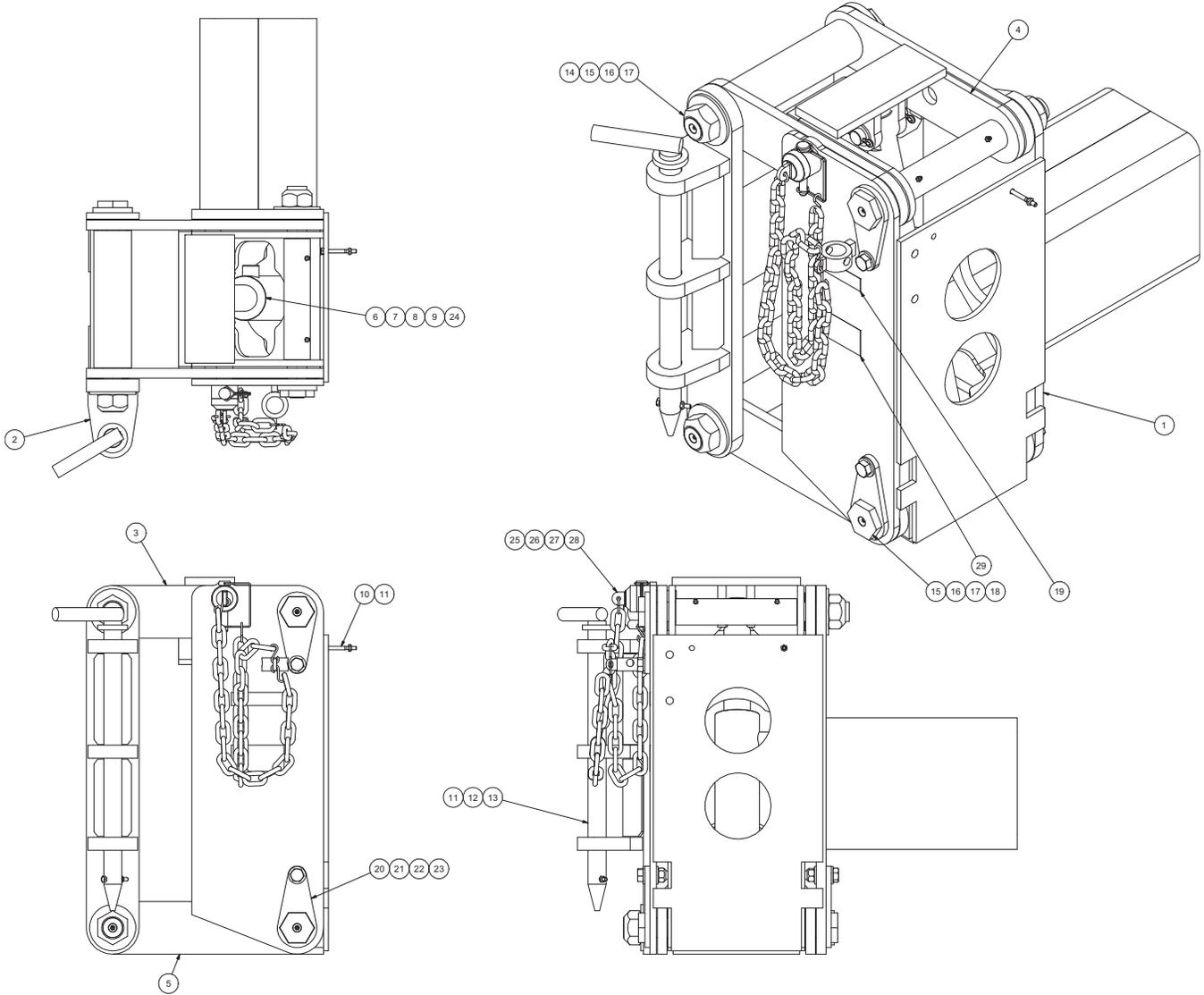
# Option - Para Glide Wing Post, RH (Continued)



**00116562 WING POST ASSEMBLY, RHMM, DF PARA**

<b>Item</b>	<b>Qty.</b>	<b>Part Number</b>	<b>Description</b>
1	1	05003214	CYLINDER,3x5,DA,EXT WING HEEL <span style="float:right">See page 62</span>
2	1	00135804	ARM WLDMT,LOWER,POST,WING
3	4	05022004	PIN .250 x 2.25 ROLL ZC
4	4	05021202	BUSHING 1.50x1.00x10GA ZC
5	2	00018157	PIN 1.000 x 4.500,NO HEAD,ZC
6	1	00135800	WING POST WLDMT,RHMM,.750
7	1	00135802	ARM WLDMT,LIFT,POST,WING
8	1	00135812	ARM WLDMT,UPPER,POST,WING
9	1	00137850	LINK WLDMT,FLOAT,POST,WING
10	1	01130613	ATTACHMENT PIN WLDMT,BLOCK
11	1	05010597	BOLT .250-20 x 2.00 G8 HHCS ZC
12	1	05020899	NUT .250-20 GC TOPLOCK C&W
13	4	05021318	WASHER 1.500 FLAT ZC
14	4	05020806	NUT 1.50-6 GC TOPLOCK C&W
15	8	05050288	GREASE ZERK,.250-28 STRAIGHT
16	4	00136886	BOLT,PARAGLIDE,15.125
17	1	05053301	DECAL,1"X4", WHITE/BLACK, PARA

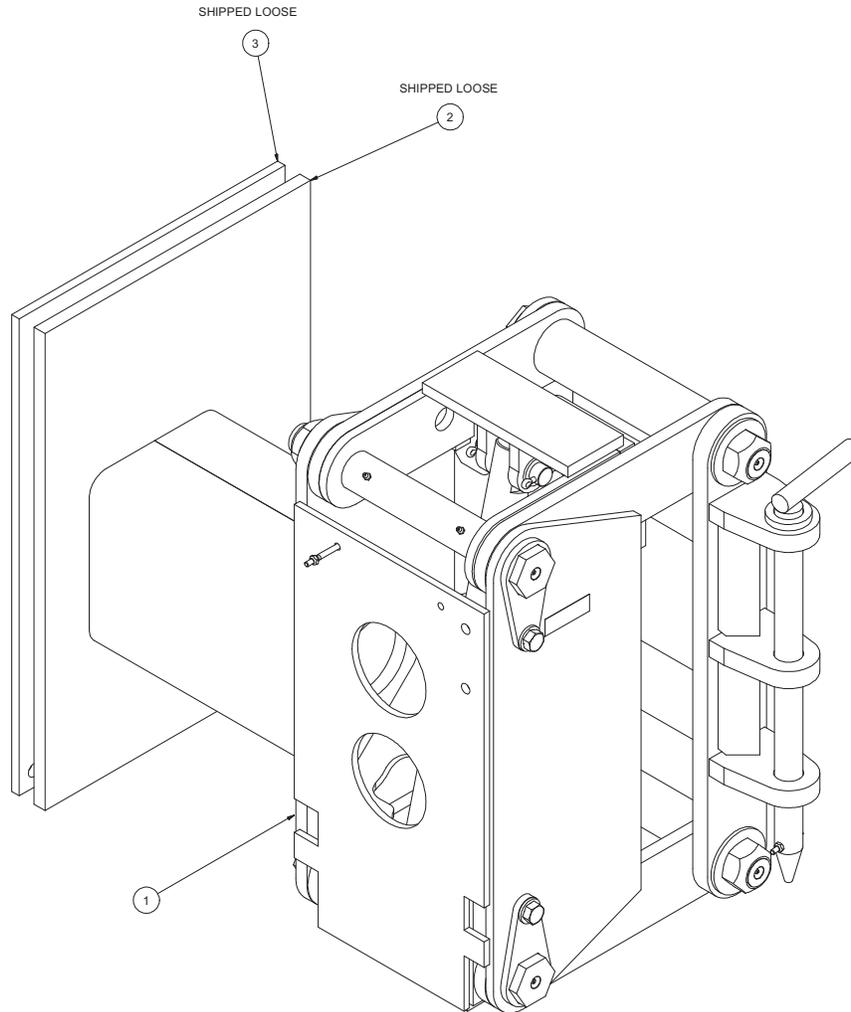
# Option - Para Glide Wing Post, RH (Continued)



**00156186 WING POST ASSEMBLY, RHFR, DF, PARA**

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00156187	WING POST WLDMT,RHFR,.750
2	1	00132276	ARM WLDMT,LIFT,POST,WING
3	1	00132265	ARM WLDMT,UPPER,POST,.750
4	1	00132287	LINK WLDMT,FLOAT,POST,WING
5	1	00132289	ARM WLDMT,LOWER,POST,.750
6	4	05021202	BUSHING 1.50x1.00x10GA ZC
7	1	05022040	PIN 1.000 x 4.250 NO HEAD
8	1	00158040	PIN,1.000 x 4.500,NO HEAD,ZC
9	1	05002714	CYLINDER,3x10,DA,LIFT,.75 ORB <span style="float:right">See page 62</span>
10	1	05010599	BOLT .250-20 x 2.50 G8 HHCS ZC
11	2	05020899	NUT .250-20 GC TOPLOCK C&W
12	1	01130613	ATTACHMENT PIN WLDMT,BLOCK
13	1	05010597	BOLT .250-20 x 2.00 G8 HHCS ZC
14	3	00136886	BOLT,PARAGLIDE,15.125
15	8	05050288	GREASE ZERK,.250-28 STRAIGHT
16	3	05021318	WASHER 1.500 FLAT ZC
17	5	05020806	NUT 1.50-6 GC TOPLOCK C&W
18	2	00136892	BOLT,PARAGLIDE,3.875
19	1	05053301	DECAL,1"X4" WHITE/BLACK,PARA
20	3	00145557	BOLT HOLDER,HEX,1.50,BOLT-ON
21	3	05010740	BOLT .625-11 x 2.25 G8 HHCS ZC
22	6	05021017	WASHER .625 FLAT MIL-CARB SAE
23	3	05020837	NUT .625-11 GC TOPLOCK C&W
24	4	05022050	PIN .250 x 2.250 COTTER
25	1	00141202	PIN WLDMT,1.250 DIA X 3.875
26	4	05050583	HOOK,S,1/8" WIRE DIAMETER
27	1	98416A562	SQUARED RETAINER PIN,.500 DIA
28	2	00135655	CHAIN,PRF COIL,.313x21.744
29	1	05090728	DECAL,WARNING,STAY CLEAR OF

# Option - Para Glide Wing Post, LH



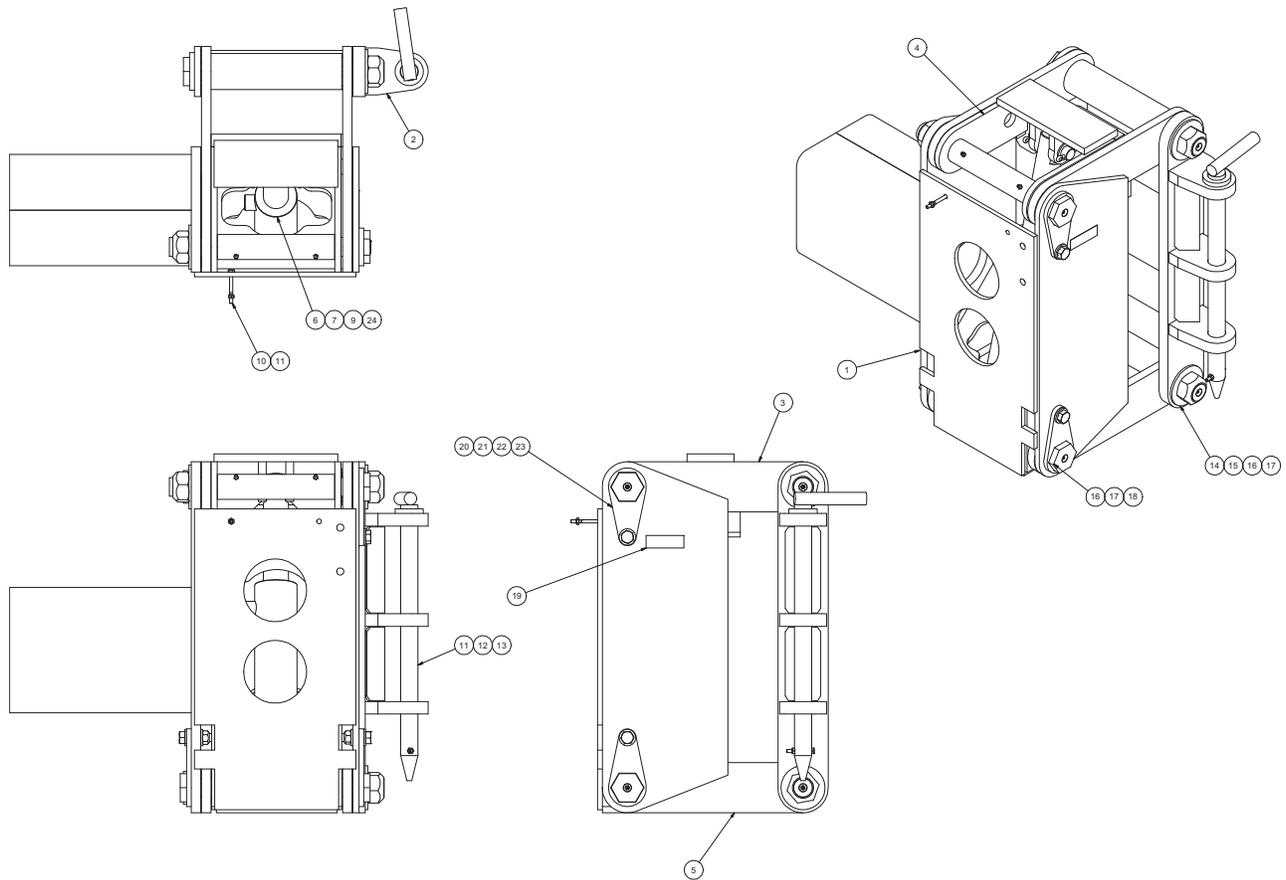
## 00134445 WING POST KIT, LHFR, DF, PARA GLIDE

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00116566	WING POST ASSY,LHFR,DF,PARA See page 93
2	1	00131899	SIDE PLATE,WING,PARA-GLIDE
3	1	00100583	SIDE PLATE,WING,PARA-GLIDE

## 00158121 WING POST KIT, LHMM, DF, PARA

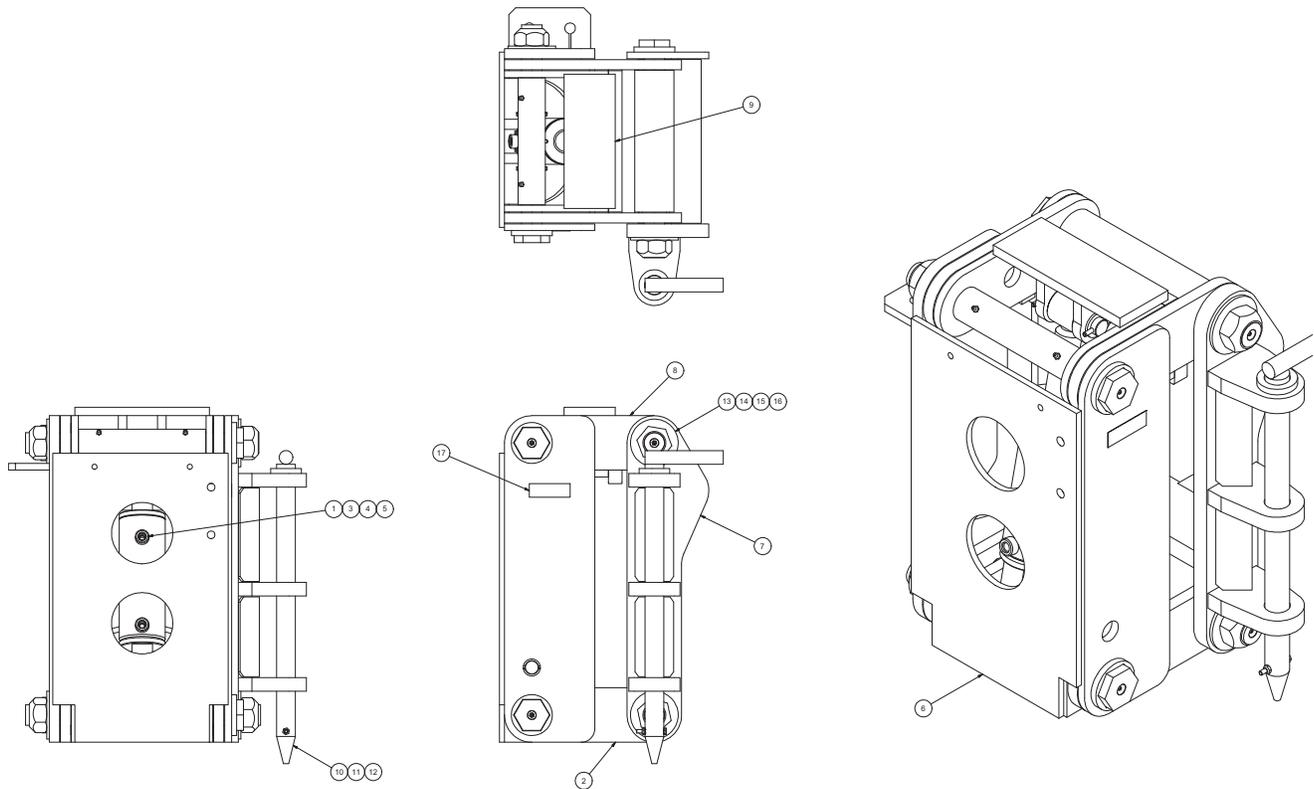
Item	Qty.	Part Number	Description
1	1	00116563	WING POST ASSEMBLY, LHMM, DF, PARA See page ???
2	1	00014619	TUBE, RECT, MS, 6 X 4 X .5 X 58.5
3	2	00158120	SIDE PLATE WING, PARAGLIDE, MM

# Option - Para Glide Wing Post, LH (Continued)



00116566 WING POST ASSEMBLY, LHFR, DF, PARA				
Item	Qty.	Part Number	Description	
1	1	00134443	WING POST WLDMT,LHFR,.750	
2	1	00134444	ARM WLDMT,LIFT,POST,WING,LH	
3	1	00132265	ARM WLDMT,UPPER,POST,.750	
4	1	00132287	LINK WLDMT,FLOAT,POST,WING	
5	1	00132289	ARM WLDMT,LOWER,POST,.750	
6	4	05021202	BUSHING 1.50x1.00x10GA ZC	
7	1	05022040	PIN 1.000 x 4.250 NO HEAD	
8	1	00018157	PIN 1.000 x 4.500,NO HEAD,ZC	
9	1	05002714	CYLINDER,3x10,DA,LIFT,.75 ORB	See page 62
10	1	05010599	BOLT .250-20 x 2.50 G8 HHCS ZC	
11	2	05020899	NUT .250-20 GC TOPLOCK C&W	
12	1	01130613	ATTACHMENT PIN WLDMT,BLOCK	
13	1	05010597	BOLT .250-20 x 2.00 G8 HHCS ZC	
14	3	05021318	WASHER 1.500 FLAT ZC	
15	5	05020806	NUT 1.50-6 GC TOPLOCK C&W	
16	8	05050288	GREASE ZERK,.250-28 STRAIGHT	
17	3	00136886	BOLT,PARAGLIDE,15.125	
18	2	00136892	BOLT,PARAGLIDE,3.875	
19	1	05053301	DECAL,1"X4", WHITE/BLACK, PARA	
20	3	00145557	BOLT HOLDER,HEX,1.50,BOLT-ON	
21	3	05010740	BOLT .625-11 x 2.25 G8 HHCS ZC	
22	6	05021017	WASHER .625 FLAT MIL-CARB SAE	
23	3	05020837	NUT .625-11 GC TOPLOCK C&W	
24	4	05022050	PIN .250 x 2.250 COTTER	

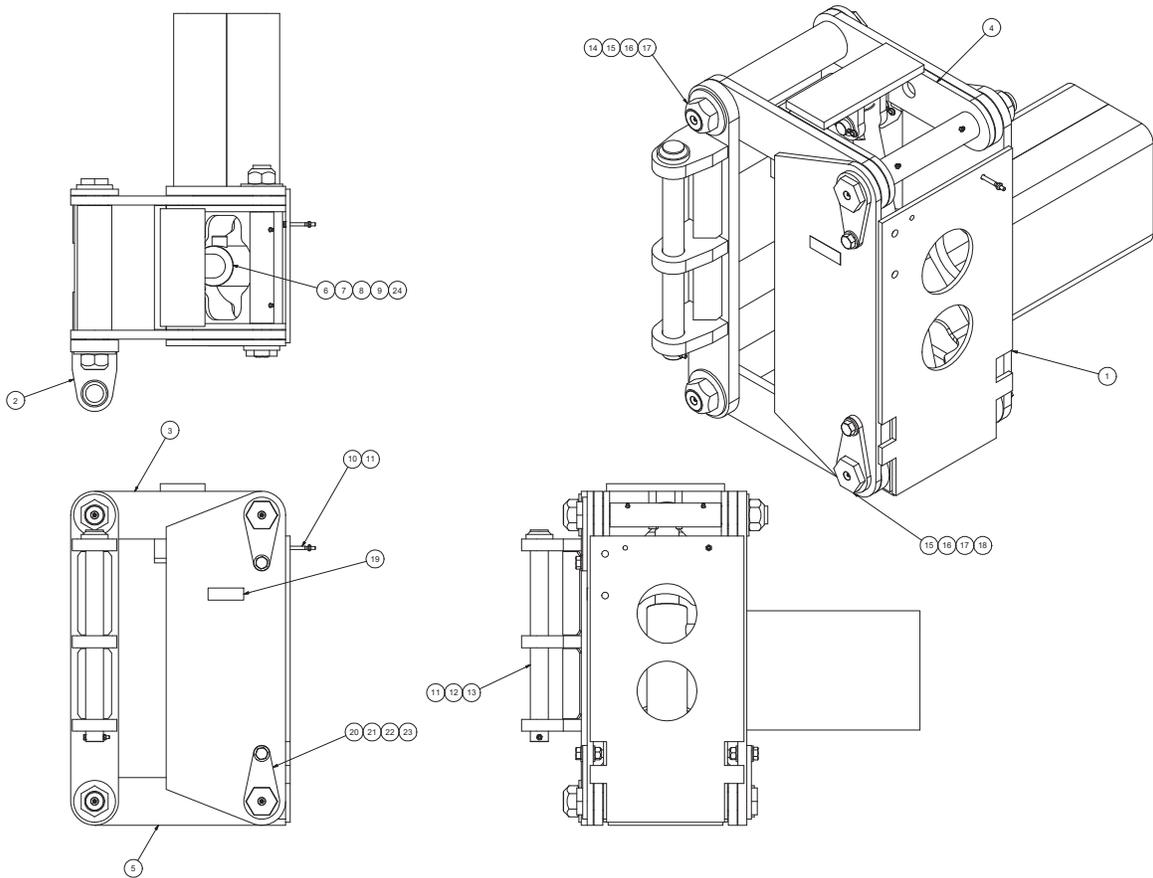
# Option - Para Glide Wing Post, LH (Continued)



## 00116563 WING POST ASSEMBLY, LHMM, DF PARA

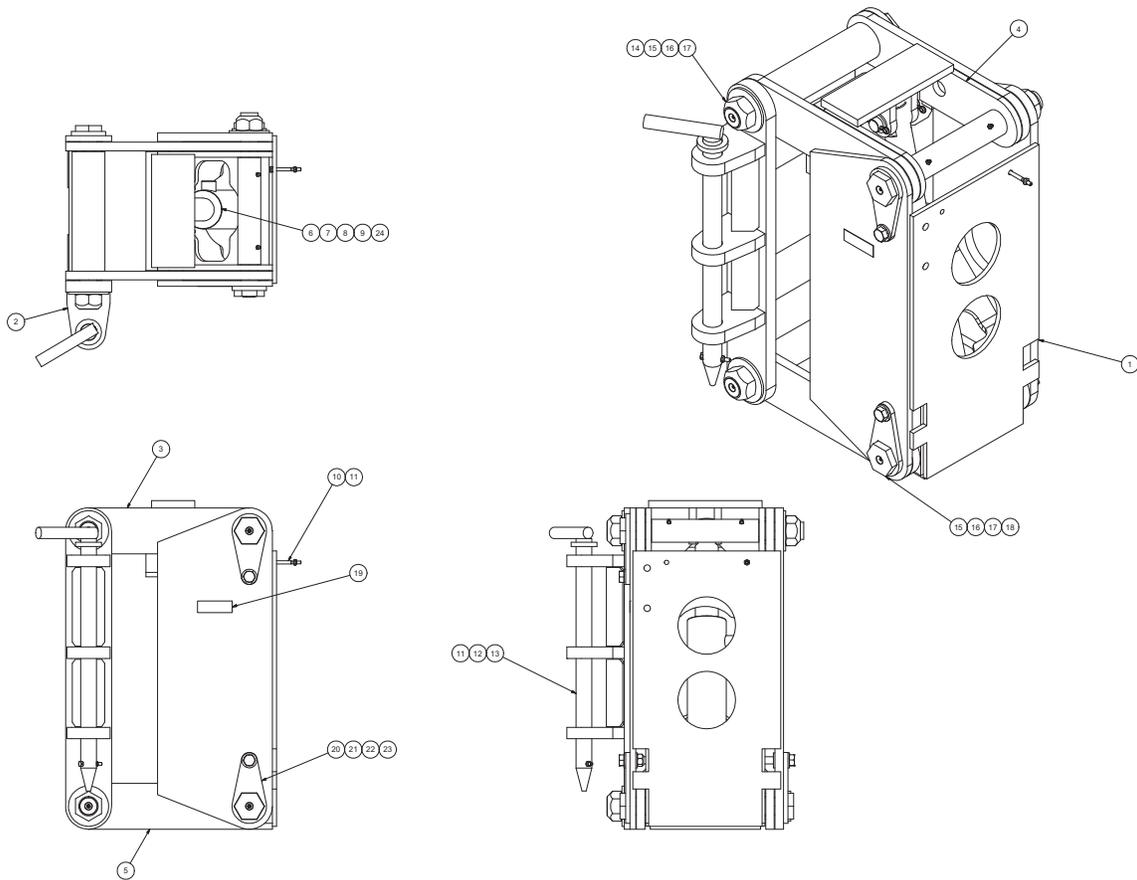
Item	Qty.	Part Number	Description
1	1	05003214	CYLINDER,3x5,DA,EXT WING HEEL <span style="float: right;">See page 62</span>
2	1	00135804	ARM WLDMT,LOWER,POST,WING
3	4	05022004	PIN .250 x 2.25 ROLL ZC
4	4	05021202	BUSHING 1.50x1.00x10GA ZC
5	2	00018157	PIN 1.000 x 4.500,NO HEAD,ZC
6	1	00137864	WING POST WLDMT,LHMM,.750
7	1	00137865	ARM WLDMT,LIFT,POST,WING,LH
8	1	00135812	ARM WLDMT,UPPER,POST,WING
9	1	00137850	LINK WLDMT,FLOAT,POST,WING
10	1	01130613	ATTACHMENT PIN WLDMT,BLOCK
11	1	05010597	BOLT .250-20 x 2.00 G8 HHCS ZC
12	1	05020899	NUT .250-20 GC TOPLOCK C&W
13	4	05021318	WASHER 1.500 FLAT ZC
14	4	05020806	NUT 1.50-6 GC TOPLOCK C&W
15	8	05050288	GREASE ZERK,.250-28 STRAIGHT
16	4	00136886	BOLT,PARAGLIDE,15.125
17	1	05053301	DECAL,1"X4", BLACK/WHITE, PARA

# Option - Para Glide Wing Post, RH, 1.563 HOLE



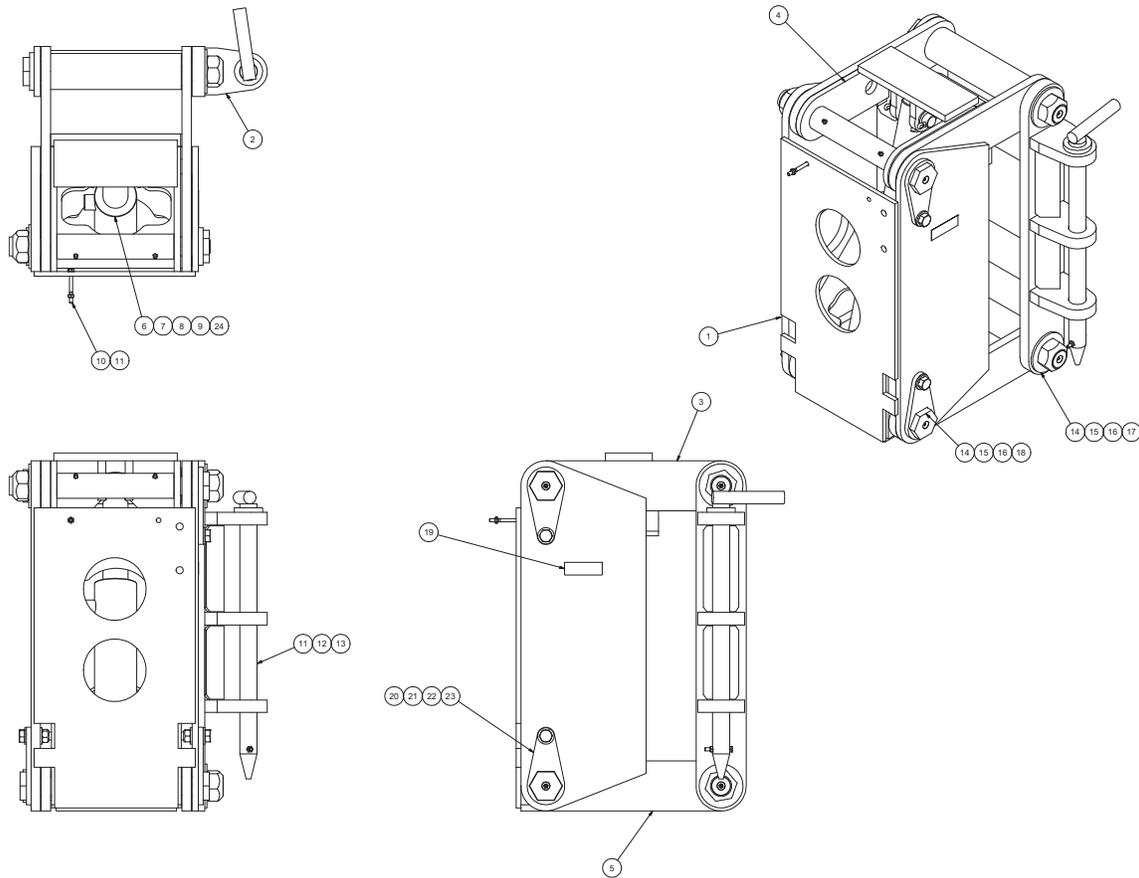
00144402 WING POST ASSEMBLY, RHFR, DF, PARA 1.563 HOLE			
Item	Qty.	Part Number	Description
1	1	00132285	WING POST WLDMT,RHFR,.750
2	1	00144401	ARM WLDMT,LIFT,POST,WING
3	1	00132265	ARM WLDMT,UPPER,POST,.750
4	1	00132287	LINK WLDMT,FLOAT,POST,WING
5	1	00132289	ARM WLDMT,LOWER,POST,.750
6	4	05021202	BUSHING 1.50x1.00x10GA ZC
7	1	05022040	PIN 1.000 x 4.250 NO HEAD
8	1	00018157	PIN 1.000 x 4.500,NO HEAD,ZC
9	1	05002714	CYLINDER,3x10,DA,LIFT,.75 ORB <span style="float: right;">See page 62</span>
10	1	05010599	BOLT .250-20 x 2.50 G8 HHCS ZC
11	2	05020899	NUT .250-20 GC TOPLOCK C&W
12	1	00095076	PIN WLDMT,MTG BLOCK,JR WING
13	1	05010597	BOLT .250-20 x 2.00 G8 HHCS ZC
14	3	00136886	BOLT,PARAGLIDE,15.125
15	8	05050288	GREASE ZERK,.250-28 STRAIGHT
16	3	05021318	WASHER 1.500 FLAT ZC
17	5	05020806	NUT 1.50-6 GC TOPLOCK C&W
18	2	00136892	BOLT,PARAGLIDE,3.875
19	1	05053301	DECAL,1"X4", WHITE/BLACK, PARA
20	3	00145557	BOLT HOLDER,HEX,1.50,BOLT-ON
21	3	05010740	BOLT .625-11 x 2.25 G8 HHCS ZC
22	6	05021017	WASHER .625 FLAT MIL-CARB SAE
23	3	05020837	NUT .625-11 GC TOPLOCK C&W
24	4	05022050	PIN .250 x 2.250 COTTER

# Option - Para Glide Wing Post, RHFR, NO FORMED MT



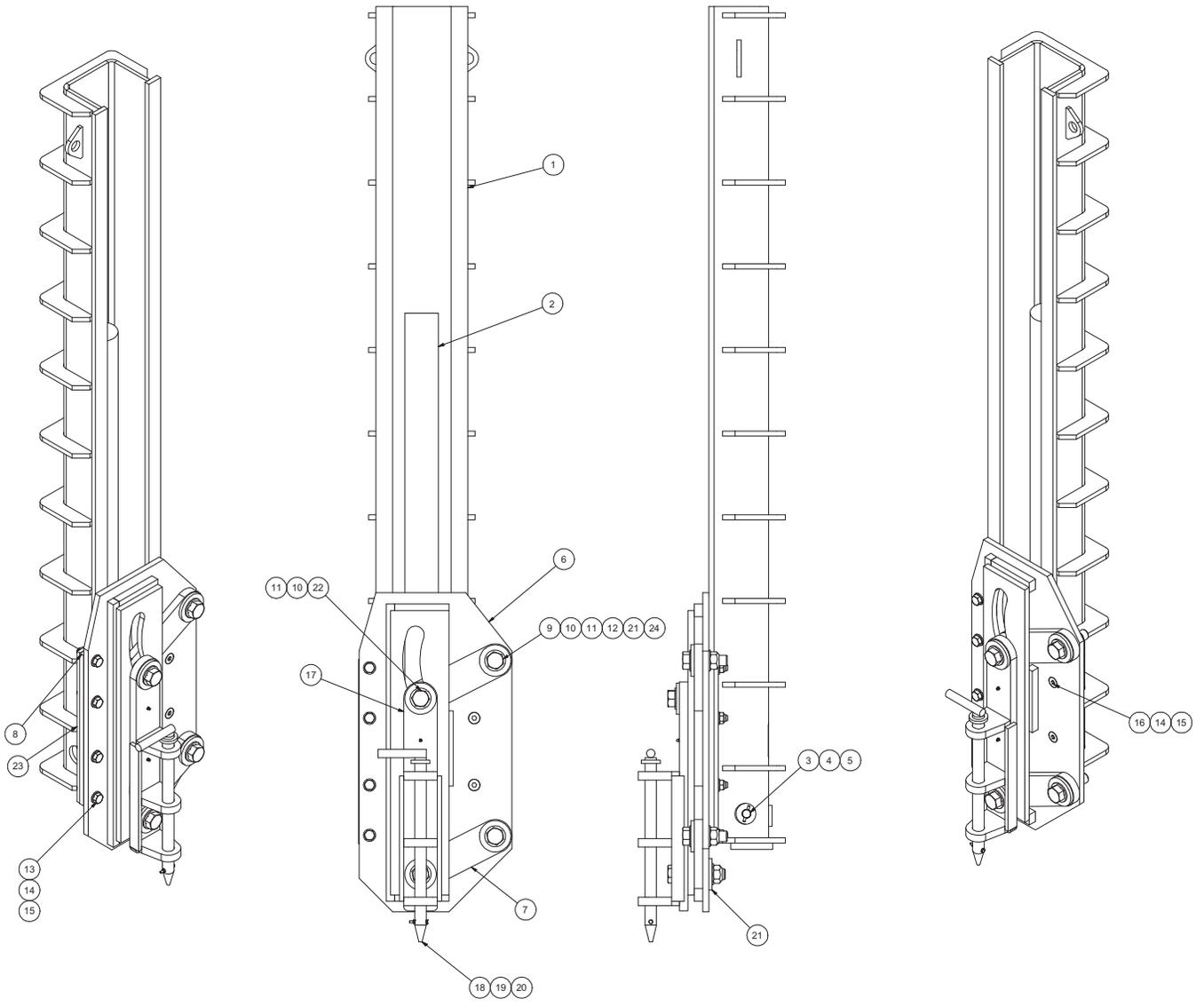
00142231 WING POST ASSEMBLY, RHFR, DF, PARA, NO FORMED MOUNT			
Item	Qty.	Part Number	Description
1	1	00142230	WING POST WLDMT,RHFR,.750
2	1	00132276	ARM WLDMT,LIFT,POST,WING
3	1	00132265	ARM WLDMT,UPPER,POST,.750
4	1	00132287	LINK WLDMT,FLOAT,POST,WING
5	1	00132289	ARM WLDMT,LOWER,POST,.750
6	4	05021202	BUSHING 1.50x1.00x10GA ZC
7	1	05022040	PIN 1.000 x 4.250 NO HEAD
8	1	00018157	PIN 1.000 x 4.500,NO HEAD,ZC
9	1	05002714	CYLINDER,3x10,DA,LIFT,.75 ORB <span style="float: right;">See page 62</span>
10	1	05010599	BOLT .250-20 x 2.50 G8 HHCS ZC
11	2	05020899	NUT .250-20 GC TOPLOCK C&W
12	1	01130613	ATTACHMENT PIN WLDMT,BLOCK
13	1	05010597	BOLT .250-20 x 2.00 G8 HHCS ZC
14	3	00136886	BOLT,PARAGLIDE,15.125
15	8	05050288	GREASE ZERK,.250-28 STRAIGHT
16	3	05021318	WASHER 1.500 FLAT ZC
17	5	05020806	NUT 1.50-6 GC TOPLOCK C&W
18	2	00136892	BOLT,PARAGLIDE,3.875
19	1	05053301	DECAL,1"X4", WHITE/BLACK, PARA
20	3	00145557	BOLT HOLDER,HEX,1.50,BOLT-ON
21	3	05010740	BOLT .625-11 x 2.25 G8 HHCS ZC
22	6	05021017	WASHER .625 FLAT MIL-CARB SAE
23	3	05020837	NUT .625-11 GC TOPLOCK C&W
24	4	05022050	PIN .250 x 2.250 COTTER

# Option - Para Glide Wing Post, LHFR, NO FORMED MT



00142233 WING POST ASSEMBLY, LHFR, DF, PARA, NO FORMED MT			
Item	Qty.	Part Number	Description
1	1	00142232	WING POST WLDMT,LHFR,.750
2	1	00134444	ARM WLDMT,LIFT,POST,WING,LH
3	1	00132265	ARM WLDMT,UPPER,POST,.750
4	1	00132287	LINK WLDMT,FLOAT,POST,WING
5	1	00132289	ARM WLDMT,LOWER,POST,.750
6	4	05021202	BUSHING 1.50x1.00x10GA ZC
7	1	05022040	PIN 1.000 x 4.250 NO HEAD
8	1	00018157	PIN 1.000 x 4.500,NO HEAD,ZC
9	1	05002714	CYLINDER,3x10,DA,LIFT,.75 ORB <span style="float: right;">See page 62</span>
10	1	05010599	BOLT .250-20 x 2.50 G8 HHCS ZC
11	2	05020899	NUT .250-20 GC TOPLOCK C&W
12	1	01130613	ATTACHMENT PIN WLDMT,BLOCK
13	1	05010597	BOLT .250-20 x 2.00 G8 HHCS ZC
14	3	05021318	WASHER 1.500 FLAT ZC
15	5	05020806	NUT 1.50-6 GC TOPLOCK C&W
16	8	05050288	GREASE ZERK,.250-28 STRAIGHT
17	3	00136886	BOLT,PARAGLIDE,15.125
18	2	00136892	BOLT,PARAGLIDE,3.875
19	1	05053301	DECAL,1"X4", BLACK/WHITE, PARA
20	3	00145557	BOLT HOLDER,HEX,1.50,BOLT-ON
21	3	05010740	BOLT .625-11 x 2.25 G8 HHCS ZC
22	6	05021017	WASHER .625 FLAT MIL-CARB SAE
23	3	05020837	NUT .625-11 GC TOPLOCK C&W
24	4	05022050	PIN .250 x 2.250 COTTER

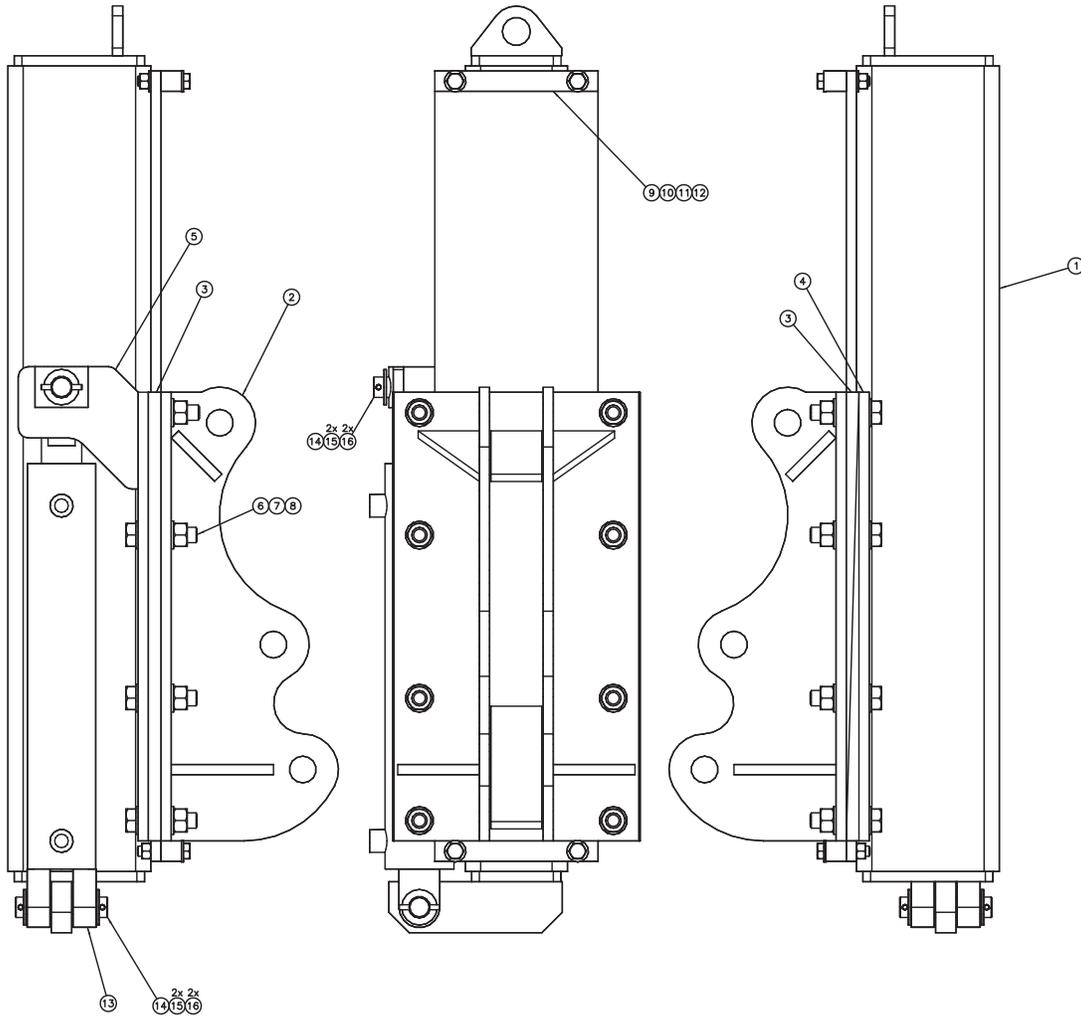
# Option - Wing Post Assembly, RHFR, HDBW



**00158199 WING POST ASSEMBLY, RHFR, HDBW**

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00158185	WING POST WLDMT,RHFR,HDBW,DIR
2	1	05002565	CYLINDER,3.5x48,DA,NIT,WING
3	1	00018157	PIN 1.000 x 4.500,NO HEAD,ZC
4	2	05022026	PIN .250 x 2.000 OA,ROLL
5	2	05021314	WASHER 1.00 FLAT ZC
6	1	00158193	SLIDER WLDMT,WING,BENCHING
7	2	00158191	LINK ARM,FLOAT
8	2	01130383	SPACER BAR,REAR BENCHING
9	2	05010853	BOLT 1.25-7 x 4.50 G8 HHCS ZC
10	8	05021341	WASHER 1.25 FLAT SAE ZC
11	4	05020835	NUT 1.25-7 GC TOPLOCK C&W
12	2	00158197	SPACER,SLIDER,POST,WING
13	4	05010768	BOLT .750-10 x 3.00 G8 HHCS ZC
14	12	05021018	WASHER .750 FLAT MIL-CARB SAE
15	8	05020849	NUT .750-10 GC TOPLOCK C&W
16	4	05014711	BOLT .750-10 x 3.00 FSHCS ZC
17	1	00158198	SLIDER WLDMT,WING,DF
18	1	01130613	ATTACHMENT PIN WLDMT,BLOCK
19	1	05010597	BOLT .250-20 x 2.00 G8 HHCS ZC
20	1	05020899	NUT .250-20 GC TOPLOCK C&W
21	6	00159207	WASHER,1.125 ID,3.0 OD,.50
22	2	05010856	BOLT 1.25-7 x 6.00 G8 HHCS ZC
23	2	01130384-B	ATTACHMENT BAR,SLIDE,WING
24	2	00159208	SPACER,POST,WING

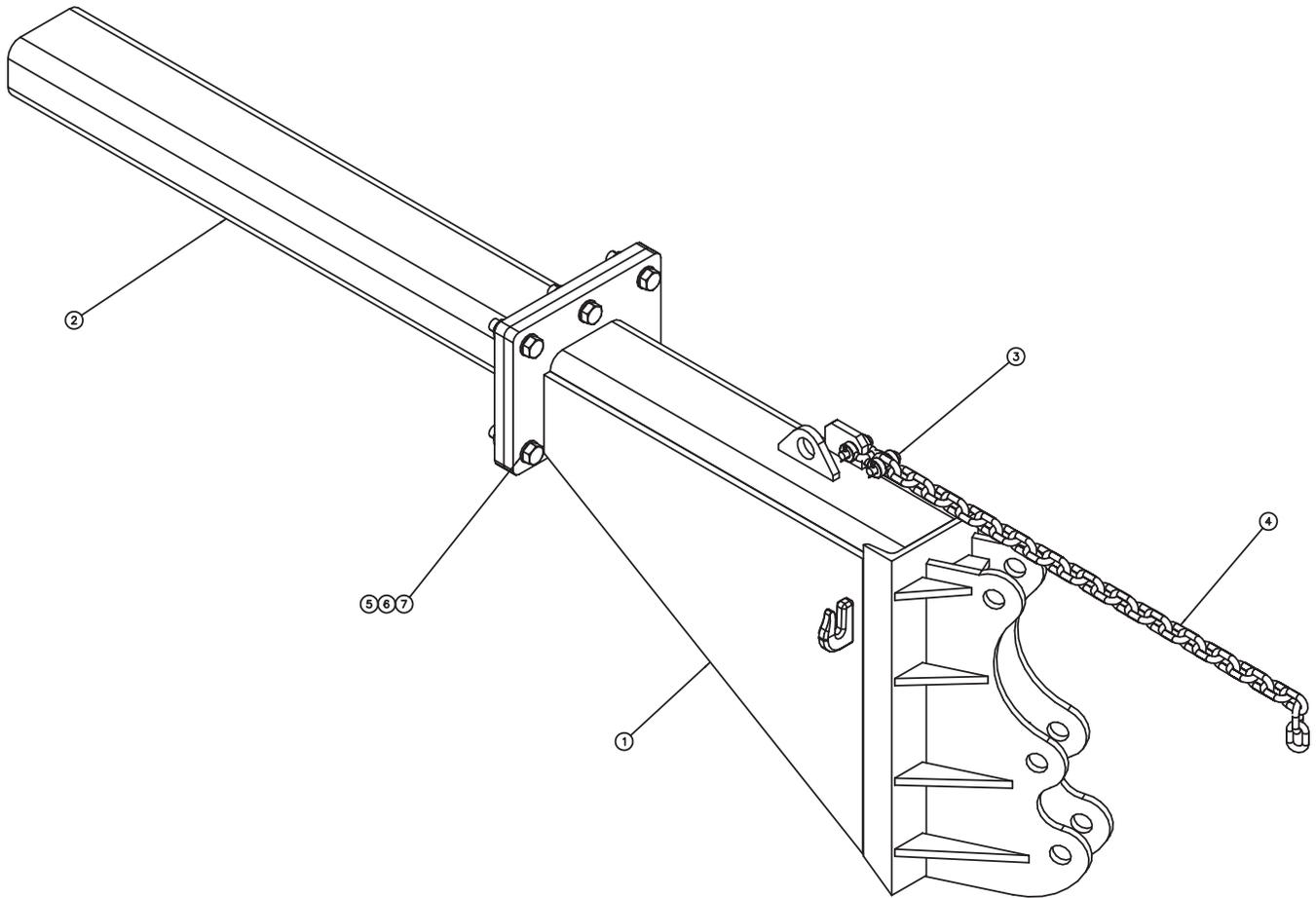
# Option - Wing Post Assembly, RHRR, HDBW



## 00055610 WING POST ASSEMBLY, RHRR, HDBW, 15DF, DIRECT

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00103002	WING POST WLDMT,RHRR,HDBW,15,DF,DIRECT
2	1	00025947	SLIDER WLDMT,REAR
3	2	01130383	SPACER BAR
4	1	01130384-B	ATTACHMENT BAR,SLIDE,POST,PAINTED
5	1	00103009	SLIDER WLDMT,ATTACHMENT,CYL
6	8	05010766	BOLT .750-10 x 2.500 G8 HHCS ZC
7	15	05021018	WASHER .750 MIL-CARB ZC
8	8	05020849	NUT .750-10 GC TOPLOCK C&W
9	2	00089808	SLIDER STOP,BOLT-ON,WING POST
10	4	05010694	BOLT .500-13 x 2.250 G8 HHCS ZC
11	8	05021005	WASHER .500 MIL-CARB ZC
12	4	05020847	NUT .500-13 GC TOPLOCK C&W
13	1	00104343	CYLINDER MODIFICATION,3x15,DA,POST,REAR
14	2	00018157	PIN 1.000 x 4.500,NO HEAD,ZC
15	4	05022004	PIN .250 x 2.250 ROLL ZC
16	4	05021202	BUSHING,MACH,1.5 x 1.0 x 10GA,ZC

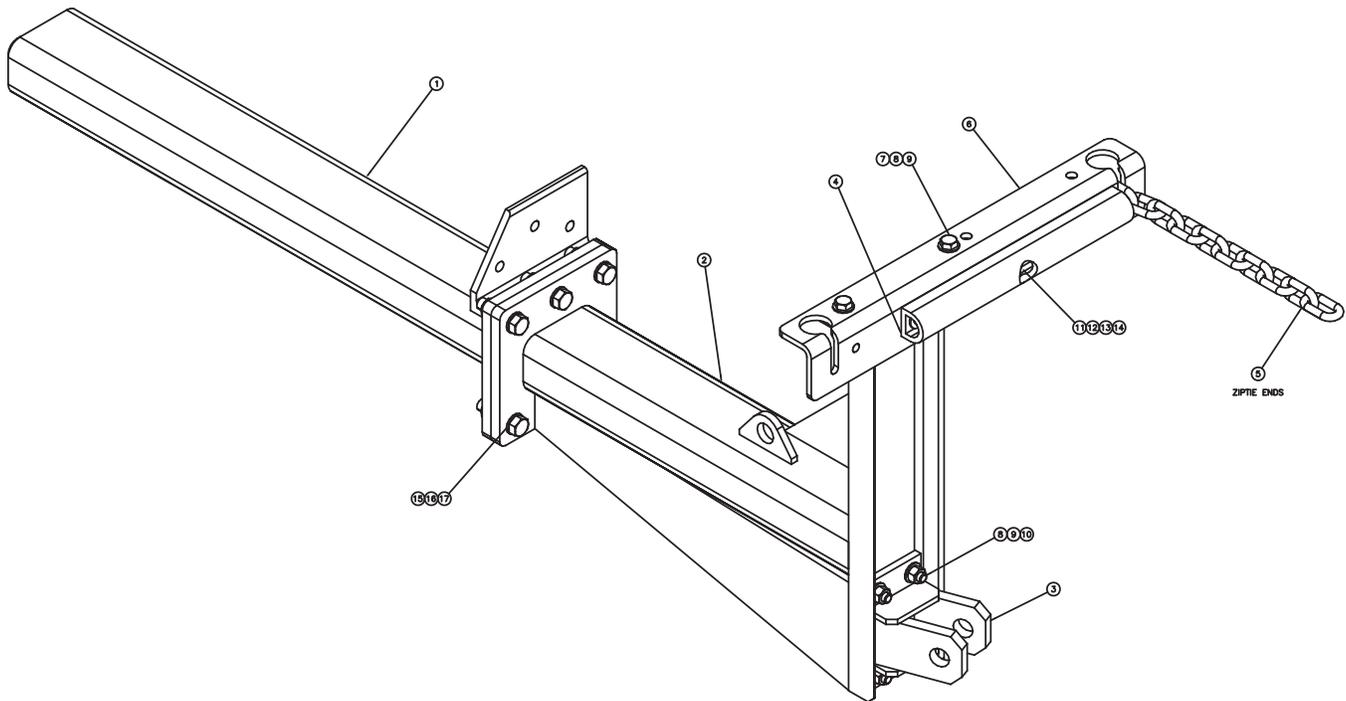
# Option - Mount Assembly Rear, RH



**00158175 MOUNT ASSEMBLY, REAR, RH, PUSHARM**

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00158176	MOUNT WLDMT,REAR,RH,OUTER
2	1	00158177	TUBE WLDMT,REAR
3	1	05050592	CLEVIS,DOUBLE,.375,5400 CAP
4	1	00030216	CHAIN,HIGH TEST,.375x31.500
5	6	05010768	BOLT .750-10 x 3.00 G8 HHCS ZC
6	12	05021018	WASHER .750 FLAT MIL-CARB SAE
7	6	05020849	NUT .750-10 GC TOPLOCK C&W

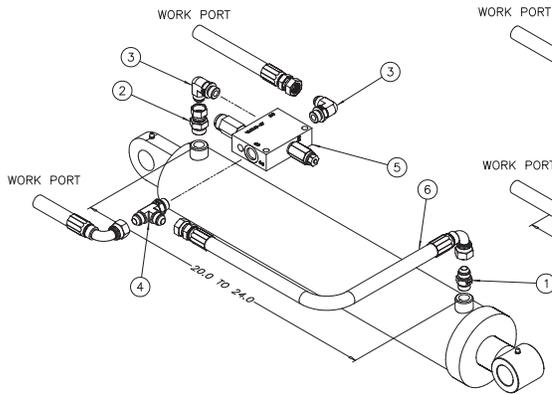
# Option - Mount Assembly Rear, RH



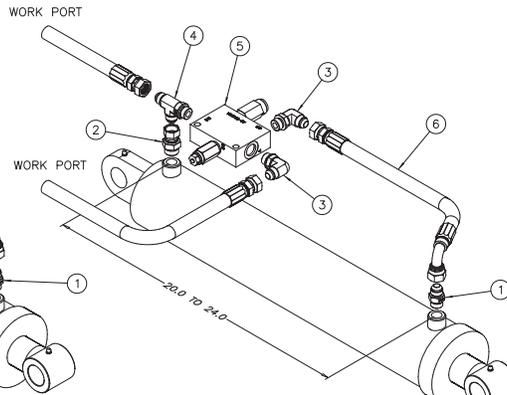
## 00106468 MOUNT ASSEMBLY, REAR, RH, PUSHARM

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00106474	MOUNT WLDMT,REAR,RH,ND,06
2	1	00106480	MOUNT WLDMT,REAR,ND,06
3	1	00054587	MOUNT WLDMT,PUSHARM,REAR,ND,04
4	1	00088986	RUBBER BUMPER,REAR MOUNT,ND
5	1	00030184	CHAIN GR43 .375 x 38 LINKS
6	1	00088982	KEYHOLE PL,REAR MOUNT,ND
7	2	05010738	BOLT .625-11 x 1.750 G8 HHCS ZC
8	12	05021017	WASHER .625 FLAT MIL-CARB SAE
9	6	05020837	NUT .625-11 GC TOPLOCK C&W
10	4	05010739	BOLT .625-11 x 2.000 G8 HHCS ZC
11	2	05010691	BOLT .500-13 x 1.500 G8 HHCS ZC
12	6	05021005	WASHER .500 FLAT MIL-CARB SAE
13	3	05020847	NUT .500-13 GC TOPLOCK C&W
14	1	05010693	BOLT .500-13 x 2.000 G8 HHCS ZC
15	6	05010768	BOLT .750-10 x 3.000 G8 HHCS ZC
16	12	05021018	WASHER .750 FLAT MIL-CARB SAE
17	6	05020849	NUT .750-10 GC TOPLOCK C&W

# Optional Equipment



\*AS SHOWN WILL LOCK CYLINDER IN THE EXTENDED DIRECTION.  
 \*CROSS OVER RELIEF SET @ 2000 PSI  
 \*CYLINDER IS REFERENCE ONLY

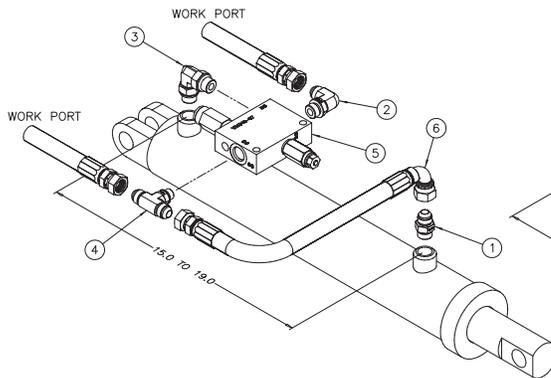


\*AS SHOWN WILL LOCK CYLINDER IN THE RETRACTED DIRECTION.  
 \*CROSS OVER RELIEF SET @ 2000 PSI  
 \*CYLINDER IS REFERENCE ONLY

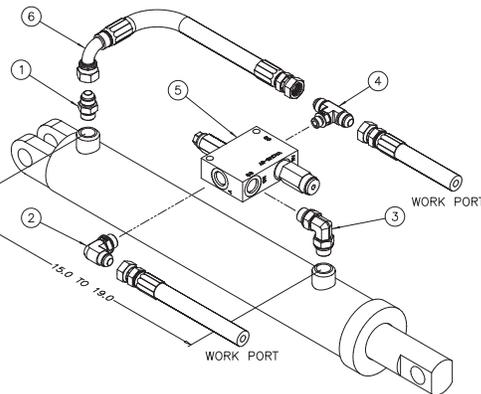
KIT FOR USE WITH CYLINDER	
PART NUMBER	DESCRIPTION
05003776	CYLINDER,4.25 IN DIA STD. HEAVY
05003863	CYLINDER,4.125 IN DIA CELL

## 05037176 VALVE KIT, WING CHECK, .750 ORB 20-24" BETWEEN

Item	Qty.	Part Number	Description
1	1	05037343	FITTING,STRAIGHT,.75-16MJICx.750-16MORB
2	1	05043058	FITTING,STRAIGHT,.75-16MORBx.750-16FJIC
3	2	05037930	FITTING,90DEG,ELBOW,.75-16ORBx.75-16JIC
4	1	05037812	FITTING,TEE,.75-16MJICx.75-16MJICx.75-16
5	1	05044081	VALVE,LOCK,2000PSI,JD WING,RELIEF
6	1	05043062	HOSE ASSY,.375ID,19.75OAL,2 WIRE



\*AS SHOWN WILL LOCK CYLINDER IN THE EXTENDED DIRECTION.  
 \*CROSS OVER RELIEF SET @ 2000 PSI  
 \*CYLINDER IS REFERENCE ONLY



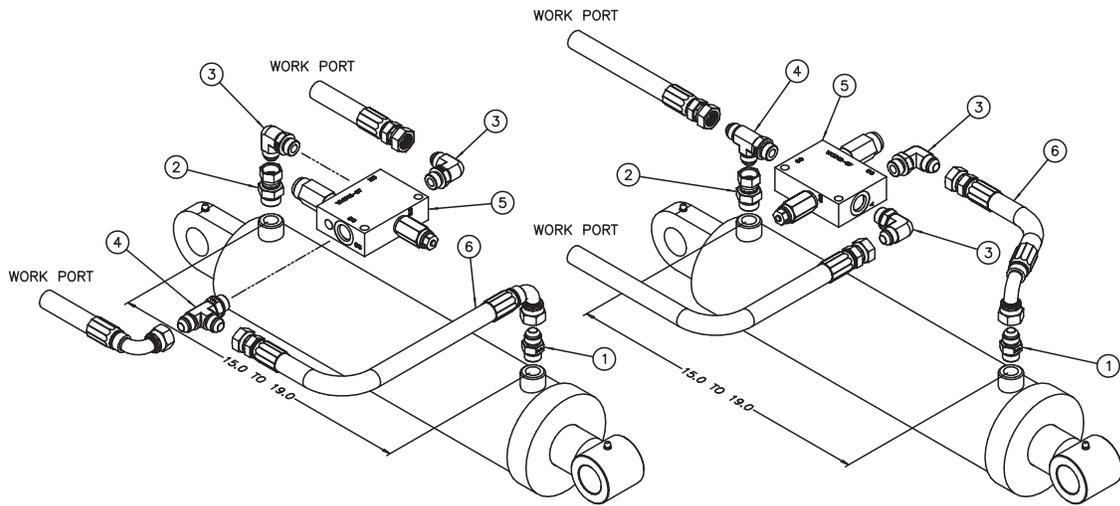
\*AS SHOWN WILL LOCK CYLINDER IN THE RETRACTED DIRECTION.  
 \*CROSS OVER RELIEF SET @ 2000 PSI  
 \*CYLINDER IS REFERENCE ONLY

KIT FOR USE WITH CYLINDER	
PART NUMBER	DESCRIPTION
05003777	CYLINDER,3.125 IN DIA PREL.2CELL

## 00151196 VALVE KIT, WING CHECK, .750 ORB, 15-19" BETWEEN

Item	Qty.	Part Number	Description
1	1	6400-8	HYD FITNG, 3/4 JIC X 3/4 ORB
2	1	6801-8	HYD FITNG, ADAPTER 90,3/4 JIC X 3/4 ORB
3	1	6807-8-8	FITTING,90-DEG,.750-16MORBx.750-16MORB
4	1	05044141	FITTING,TEE,.750-16MJICX.75-16
5	1	05044081	VALVE,LOCK,2000PSI,JD WING,RELIEF
6	1	05038874	HOSE ASSY,.375" ID,14.75"OAL,2 WIRE

# Optional Equipment

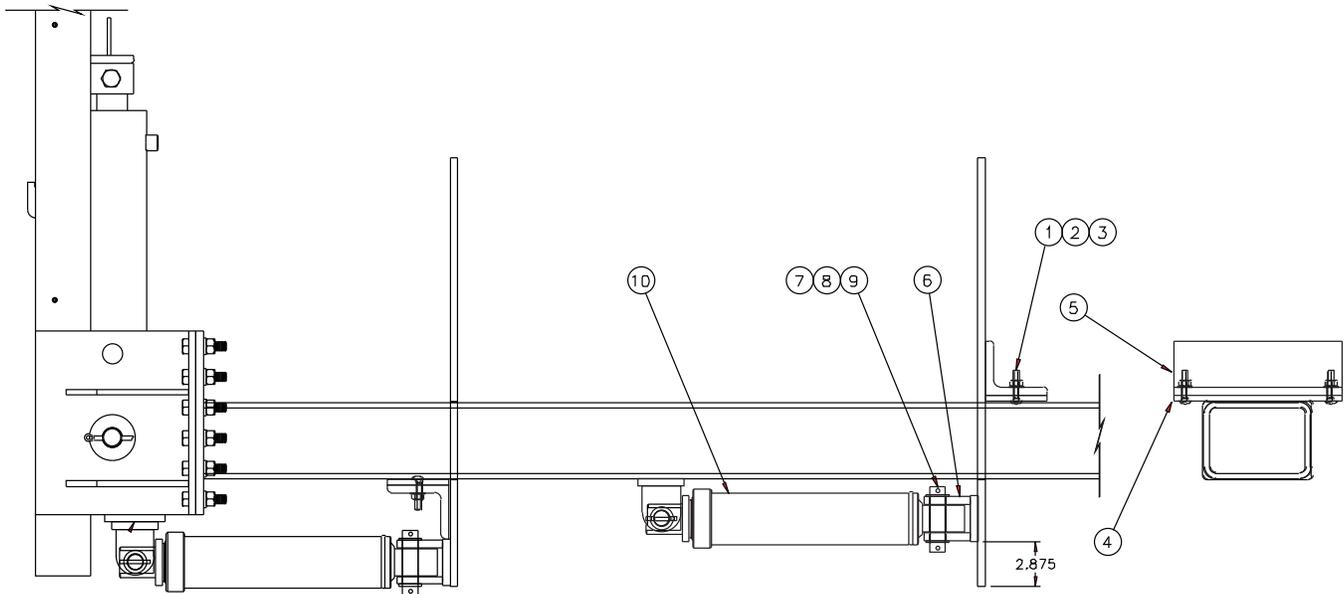


\*AS SHOWN WILL LOCK CYLINDER IN THE EXTENDED DIRECTION.  
 \*CROSS OVER RELIEF SET @ 2000 PSI

\*AS SHOWN WILL LOCK CYLINDER IN THE RETRACTED DIRECTION.  
 \*CROSS OVER RELIEF SET @ 2000 PSI

00017096 VALVE KIT, WING CHECK, .750 ORB, 15-19" BETWEEN			
Item	Qty.	Part Number	Description
1	1	05037343	FITTING,STRAIGHT,.75-16MJICx.750-16MORB
2	1	05043058	FITTING,STRAIGHT,.75-16MORBx.750-16FJIC
3	2	05037930	FITTING,90DEG,ELBOW,.75-16ORBx.75-16JIC
4	1	05037812	FITTING,TEE,.75-16MJICx.75-16MJICx.75-16
5	1	05044081	VALVE,LOCK,2000PSI,JD WING,RELIEF
6	1	05038874	HOSE ASSY,.375ID,14.75OAL,2 WIRE

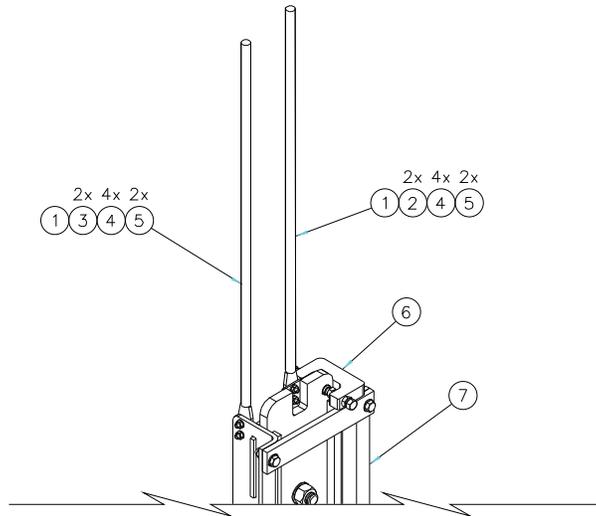
# Optional Equipment



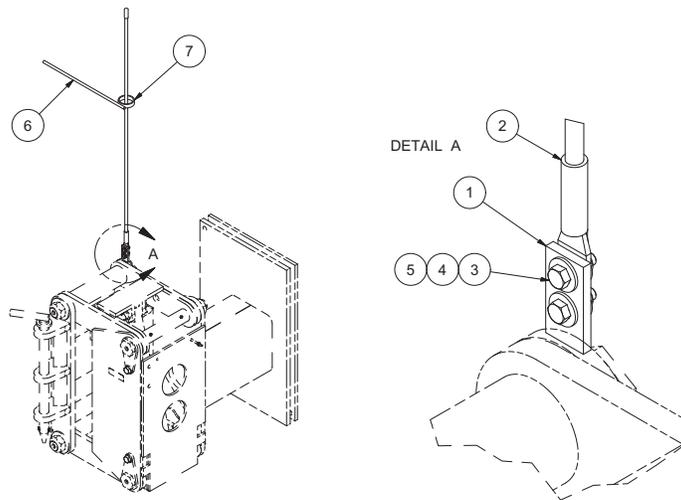
## 00030357 SIDE PLATE KIT,POWER SLIDE

Item	Qty.	Part Number	Description
1	4	05013582	BOLT .375-16 x 2.00 G2 CRG ZC
2	4	05021365	WASHER .375 LOCK ZC
3	4	05020266	NUT .375-16 G8 HEX ZC
4	2	00030360	POLY BEARING SURFACE
5	2	00030359	SIDE PL ANGLE,POWER SLIDE
6	2	00030362	SUPPORT EAR WELDMENT
7	2	05022040	PIN 1.000 x 4.250 NO HEAD
8	4	05021202	BUSHING 1.50 x 1.00 x 10GA ZC
9	4	05022026	PIN .250 x 2.000 OA,ROLL
10	1	05000000	CYLINDER,3x10,DA,REVERSE,.75 See page 63

# Optional Equipment

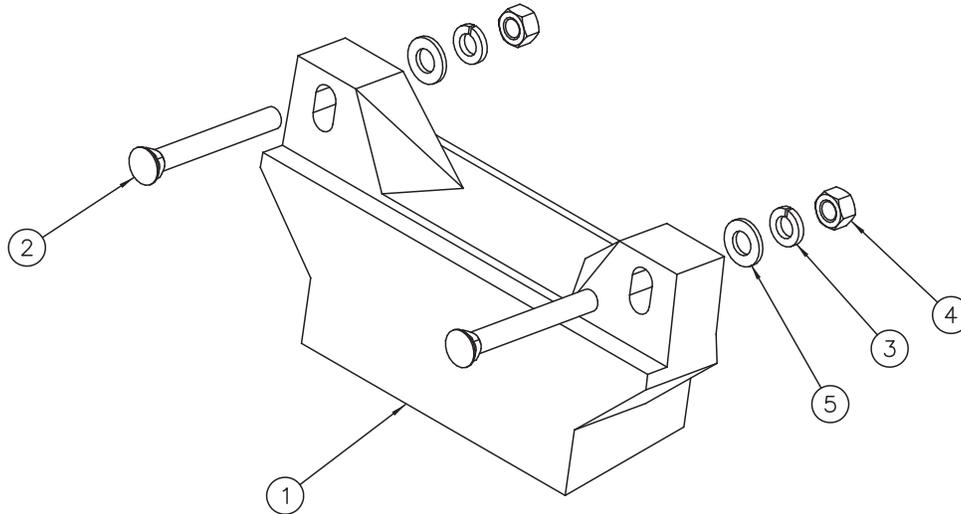


00099010 MARKER KIT,BOLT-ON,TRIM-LINE POST			
Item	Qty.	Part Number	Description
1	1	05051432	MARKERS,36"FLRSCNT
2	2	05010618	BOLT .313-18 x 1.00 G8 HHCS ZC
3	2	05010619	BOLT .313-18 x 1.25 G8 HHCS ZC
4	8	05021306	WASHER .313 FLAT ZC
5	4	05020909	NUT .313-18 GC TOPLOCK C&W
6	REF	00099001	STOP ASSY,SAFETY,POST,WING
7	REF	00016331	WING POST ASSY,FR,DF,TRIM-LINE See page 26

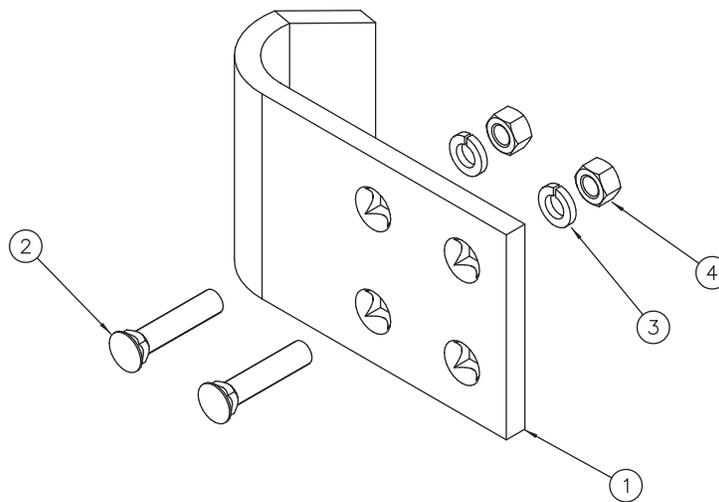


00142285 MARKER KIT, BOLT-ON, PARA GLIDE POST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00026331	MARKER MOUNT
2	1	05051181	MARKERS,CABLE,42"L,STRT,YELLOW
3	2	05010618	BOLT .313-18 x 1.00 G8 HHCS ZC
4	2	05020909	NUT .313-18 GC TOPLOCK C&W
5	4	05021306	WASHER .313 FLAT ZC
6	1	00022077-B	RND,SS,.375 DIAx16.750
7	1	00098536-B	PIPE,SS,2.000xSCH40x.625

# Optional Equipment



00061796 SHOE KIT,MLDBD,8.0 CE,10DEG			
Item	Qty.	Part Number	Description
1	1	05050221	SHOE,MLDBD CAST,8",10 DEG
2	2	05014560	BOLT .625-11 x 5.00 DH PLN
3	2	05021383	WASHER .625 LOCK HVY ZC
4	2	05020270	NUT .625-11 G8 HEX ZC
5	1	05021017	WASHER .625 FLAT MIL-CARB SAE



00061798 GUARD KIT,CURB,WRAP AROUND, .625 x 6			
Item	Qty.	Part Number	Description
1	1	05050000	GUARD,CURB,WRAP AROUND
2	2	05014553	BOLT .625-11 x 3.00 DH PLN
3	2	05021383	WASHER .625 LOCK HVY ZC
4	2	05020270	NUT .625-11 G8 HEX ZC

# Uninstalled Parts & Equipment Warranty

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## Warranty Policy

### Uninstalled Parts and Equipment Provided by Monroe Truck Equipment

Monroe Truck Equipment will provide the following limited warranty for a period of one year to the original purchaser of all uninstalled goods provided by Monroe Truck Equipment:

**LIMITED WARRANTY:** All goods provided by Monroe Truck Equipment (MTE) will be free from defects in material and workmanship for a period of one year from the date of purchase by the original purchaser. This limited warranty shall be the sole and exclusive remedy for any such product found to be defective. This limited warranty supersedes all previous warranties and is exclusive and in lieu of all other warranties, whether expressed or implied.

This limited warranty applies only to parts or accessories manufactured by MTE and/or provided by same. Except with respect to title, this limited warranty does not pertain to parts or accessories not manufactured and/or provided by MTE, regardless of whether such parts or accessories were selected and/or recommended by MTE. MTE will, as a service to the buyer, pass on any warranties received from the original manufacturer of MTE provided parts and/or accessories.

MTE will not under any circumstances be liable for any incidental or consequential damages whether in tort, contract, or otherwise, for any bodily injury, death, property damage, loss of use, or loss of income resulting from or in any way arising out of any goods provided by MTE, or their sale, use, or manufacture.

Any warranty claim deemed to be arising from the result of misuse, abuse, neglect, accident, improper installation, lack of maintenance, act of war (whether declared or otherwise), or act of God will be denied. Any repair or modification by the buyer or any third party, without the prior written consent of MTE, will void any possible warranty compensation. Any damage deemed to be the result of abnormal operation will not be compensated by this warranty.

Normal or special maintenance items such as fuels, fluids, tires, belts, hoses, filters, air cleaners, light bulbs, and any other items subject to normal wear and tear that are supplied in connection with goods provided by MTE are not allowed under this warranty.

All engines, pumps, cylinders, valves, and motors are warranted by their manufacturer and not by Monroe Truck Equipment. The manufacturer's warranty will apply to these parts. Electrical and hydraulic components are not to be disassembled without the express written consent of MTE. Any disassembly of MTE provided components without prior authorization will void the applicable warranty.

Monroe Truck Equipment shall be the sole and final determining authority as it applies to the administration of this warranty policy. Purchaser acknowledges receipt of Monroe Truck Equipment Warranty Policy and agrees to be bound by same.

# **Uninstalled Parts & Equipment Warranty**

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## **Warranty Policy**

### **Uninstalled Parts and Equipment Provided by Monroe Truck Equipment**

Any and all warranty claims must be forwarded to MTE within 10 days of defect discovery. A copy of the original Monroe Truck Equipment invoice as well as the manufacturer's model number, serial number, and date of installation must accompany all correspondence regarding said claims. MTE will, at their option, choose whether to repair or replace the defective part unless otherwise specified by the original manufacturer of said part.

### **Procedures for Warranty Claims Notification**

For submission of any warranty claim please contact Monroe Truck Equipment – Warranty Department at 800-356-8134

The following documentation will be needed when you call for initial warranty authorization:

A copy of the original MTE invoice.

Make, Model, and VIN or Serial Number of the equipment involved.

Part number and serial number of the part in question.

A complete description of the problem.

The following must accompany any claim submitted to Monroe Truck Equipment:

Documented photographs of any physical damage.

Inspection notes by MTE personnel or MTE authorized 3<sup>rd</sup> party.

Authorization number issued by Monroe Truck Equipment – Warranty Department.

**Defective parts must be returned to Monroe Truck Equipment (freight prepaid) within 30 days of issuance of Authorization Number.**

**Monroe Truck Equipment reserves the right to void any warranty for failure to comply with Monroe Truck Equipment Warranty Policy.**

**This policy is effective October 11, 2012**



