



Plow Hitch Operation and Parts Manual

REV 06172022

Manual No. BON-000904



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When ordering parts, please refer to the Model and Serial Numbers of your plow hitch.

They are on the back cover of this manual.

SAFETY FIRST

Please read this manual before attempting to install or operate this equipment.



The symbol at left means ALERT. Any time you see this symbol, you are being warned that your safety is in danger! Please be careful!

GUIDELINES TO FOLLOW:

1. Turn off all power including truck engine when servicing or installing equipment.
2. Follow all recommended operation procedures.
3. Follow a regular maintenance schedule so that your equipment is kept in good operating condition at all times. Improper maintenance can lead to failure during operation, which makes for unsafe conditions.
4. Recognize and avoid hazardous situations during the installation, operation, maintenance, and servicing of equipment.
5. Please pay attention to, and respect, safety decals. They are there to protect you from injury.

AVOID ACCIDENTS

Most accidents, whether they occur in industry, on the farm, at home, or on the highway, are caused by failure of some individual to follow simple and fundamental safety rules or regulations. For this reason, most accidents can be prevented by recognizing the real cause and doing something about it before the accident occurs.

Regardless of the care used in the design and construction of any type of equipment, there are many conditions that cannot be completely safeguarded against without interfering with reasonable accessibility and efficient operation.

A careful operator is the best insurance against an accident. The complete observance of one simple rule would prevent many thousand serious injuries each year. That rule is:

***NEVER ATTEMPT TO CLEAN, OIL, OR ADJUST
A MACHINE WHILE IT IS IN MOTION.***

NATIONAL SAFETY COUNCIL

PLEASE, ALWAYS THINK SAFETY FIRST!

The purpose of this manual is to inform the person using the unit with the necessary information to properly install, operate, and maintain this unit. These instructions cannot replace the fundamental knowledge that a person must possess in order to safely and adequately operate this unit. The person must be qualified and possess the clear thinking necessary to install and operate this equipment. Since the life of any machine depends largely upon the care it is given, we suggest that this manual be read thoroughly and referred to regularly by anyone working on or around this unit. If for any reason you do not understand the instructions, please call your authorized service center or our office at (815) 284-3819. It has been our experience that by following these installation and maintenance instructions, and by observing the operation of this equipment, you will have sufficient understanding of how to troubleshoot and correct all normal problems that you may encounter during the life of the equipment.

THE NEED FOR SAFETY CANNOT BE STRESSED ENOUGH. WE URGE YOU TO MAKE SAFETY YOUR TOP PRIORITY WHEN OPERATING THIS UNIT OR ANY OTHER EQUIPMENT.

**ACCIDENTS HURT!
ACCIDENTS COST!
ACCIDENTS CAN BE AVOIDED!**

General Maintenance Guidelines



Caution – the following items must be checked before initial start-up of the new plow hitch.

Initial servicing:

- Check all bolts for tightness. Torque as required if loose.
- Check for missing or broken cotter pins.
- Grease all fittings as required.
- Verify all hydraulic fittings are tight and not leaking.
- Check all hydraulic lines for damage or kinks.
- Check cylinder and lift arm operation.

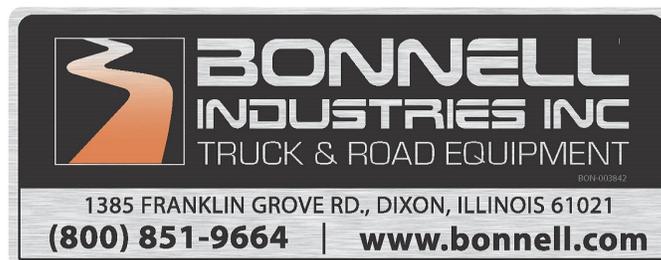
After first hour of operation and every 8 hours thereafter:

- Check all bolts for tightness. Torque as required if loose.
- Check for missing or broken cotter pins.
- Verify all hydraulic fittings are tight and not leaking.
- Check plow cutting edge wear.



Caution – failure to check and replace worn cutting edges will result in damage to plow!

Power washing of the hitch and truck is recommended after each use to prevent corrosion damage.



General Operating Instructions

Special note: This manual is intended for use as a supplement to your specific municipal guidelines in snow plow operation, and is not intended to be a “*complete snow plowing guide*”. Proper training is the key to safe and proper operation of this equipment.

Hook up:

Your hitch may be equipped with a quick attach hitching system. In order for this system to work properly the plow must be stored so that the push frame is in a level position. If this condition does not exist, the quick attach loop will not line up with the receiver on the truck.

Before hooking up the plow, be sure to give the plow and the plow hitch a good visual inspection to see that there is no damage to any of the components. If damage is found it should be repaired before using the equipment. Refer to the maintenance section of this manual.

Quick Attach Receiver Hook-up: To hook up the plow, lift the drop pin lever on the receiver and secure it on the upper retaining stop. Drive the truck squarely up to the snow plow taking care to keep it centered on the plow while approaching. Proceed forward until the curved push plates on the front of the receiver are against the channel on the a-frame of the plow.



Warning – take the truck out of gear and secure the parking brake before getting out of the cab.

Lower the drop pin. Be sure the drop pin lever is secured under the lower retaining stop. Connect the power reversing hoses.

Swivel bar hook up: drive the truck squarely up to the snow plow taking care to keep it centered on the plow while approaching. Proceed forward until the pin-up holes on the front of the truck hitch are lined up with the holes on the a-frame of the plow. Install pins and keepers.

Other hook-up equipment: if you have a different hook-up than those described above, see your authorized dealer for further instructions.

For chain hook-up instructions, refer to the level lifts section of this manual. After hook up, reverse and lift the plow several times to be sure everything is working properly.

For chain hook up instructions, refer to the Level Lift Devices section, page 7

After hook up, reverse and lift the plow several times to be sure everything is working properly.



Warning – make sure all persons are in the clear Before operating the plow.

Operation:

Special care and alertness need to be practiced when plowing snow, because often conditions are hazardous and visibility is poor.

- Always be sure to have the truck's hazard lighting system in operation while plowing. Plow hook up or shift change is a good time to check that all lighting is working properly.
- Maximum plowing speeds are recommended not to exceed 15 mph while plowing city streets, and 25 mph for rural routes.
- If the plow is equipped with a trip cutting edge, the plow will trip and clear obstructions with minimal impact to the truck and driver. This tripping mechanism should automatically return the cutting edge to its plowing position. However, if the springs are weak or if one or more are broken, then the operator may have to lift the plow slightly to allow the cutting edge to return to its normal position. If this condition persists, it would be advisable to change the springs.
- The pitch of the plow is adjustable to different positions. Different positions may be desirable in different conditions. For further instructions, see your municipal guidelines for plowing snow.

Unhooking plow:

Park the plow in the desired position, reverse to the straight position, and lower to the ground.

Be sure to lower the lift arm to put slack in the chain for ease of removal.

Apply the parking brake. Shut the truck off and move the power reversing handle back and forth to relieve any pressure at the quick connects.

Place a stand under the plow to hold it level. If the plow is equipped with shoes, no stand is needed, but be sure that they are touching the ground.

Disconnect hoses and lift chain. Lift drop pin lever to its upper position and secure. Visually inspect plow for any damage.

Slowly back truck away from plow

Put the lift arm in the stowed position. Refer to the *Stowing the Lift Arm* section of this manual, on page 9



Level Lifting Devices

Your plow or hitch may be equipped with one of the following level lifting devices:

- Telescopic level lift arm
- Table mount Level Raise Lift System



Warning - improper operation of this equipment will affect how the plow operates and could cause damage to the equipment. Read and understand this section thoroughly before operating equipment.

Telescopic lift arm:

The telescopic lift arm works by lifting the plow directly above the reversing pivot point on the plow table. The key to proper operation of this lift arm is proper inner lift arm placement.

Extend the inner arm out so the chain loop is directly above the pivot point. Hook up the chains, making sure that there are an equal number of links on each side of the plow.

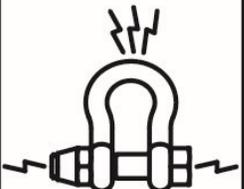
Lift the plow off of the ground slightly and reverse to the right (curb side). Check for level and adjust as required:

If the driver's side is low, move the inner lift arm **in** one hole.
If the curb side is low, move the inner lift arm **out** one hole.

Repeat as necessary until level is achieved.

Additional adjustment can be achieved by shortening or lengthening one of the lift chains.

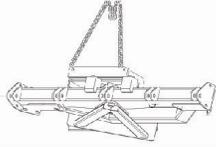
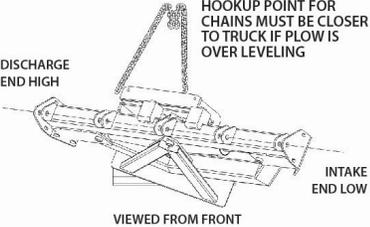
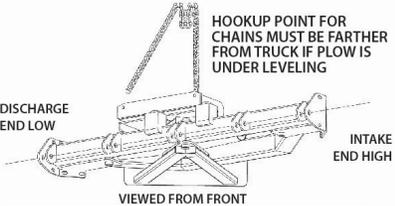
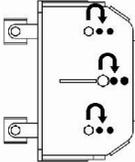
These settings may be different for each truck and plow. If the same truck and plow will always be operated together, the settings can be marked on the equipment – insert a plastic zip strip through the proper chain links, and mark the lift arm with a paint stick.

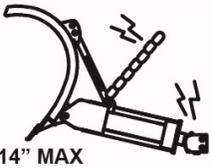
 WARNING	
	CRUSHING HAZARD Serious injury or death can occur
	<ul style="list-style-type: none">• Do not overtighten chain clevis bolts.• Clevis bolts must spin freely in clevises when installed properly.
 WARNING	
	CRUSHING HAZARD Serious injury or death can occur
 14" MAX	<ul style="list-style-type: none">• Do not overlift plow. Proper lift height not to exceed 14".• Increase slack in lifting chains or cables to prevent binding.

Level Raise Lift System:

The Level Raise Lift System has all of the leveling equipment mounted on the plow. It operates by shifting the chain lift points on the plow as the plow reverses, and is not dependent on a specific lift arm. One advantage of the Level Raise Lift System is that it will work with many different brands of plow hitches. The Level Raise Lift System has three adjustments to vary the amount of shift, and is set up at the factory in the forward position (figure 1 below). **This position will work with all Bonnell Manufactured equipment.** In cases where another brand of hitch is being used, adjusting this setting may be required.

When hooking up your Level Raise plow, you will first want to adjust the lift arm or chains first, if adjustment is necessary. If a telescopic lift arm is being used, the lift arm needs to be fully retracted. **The inner arm may need to be shortened to fully retract to the end hole.**

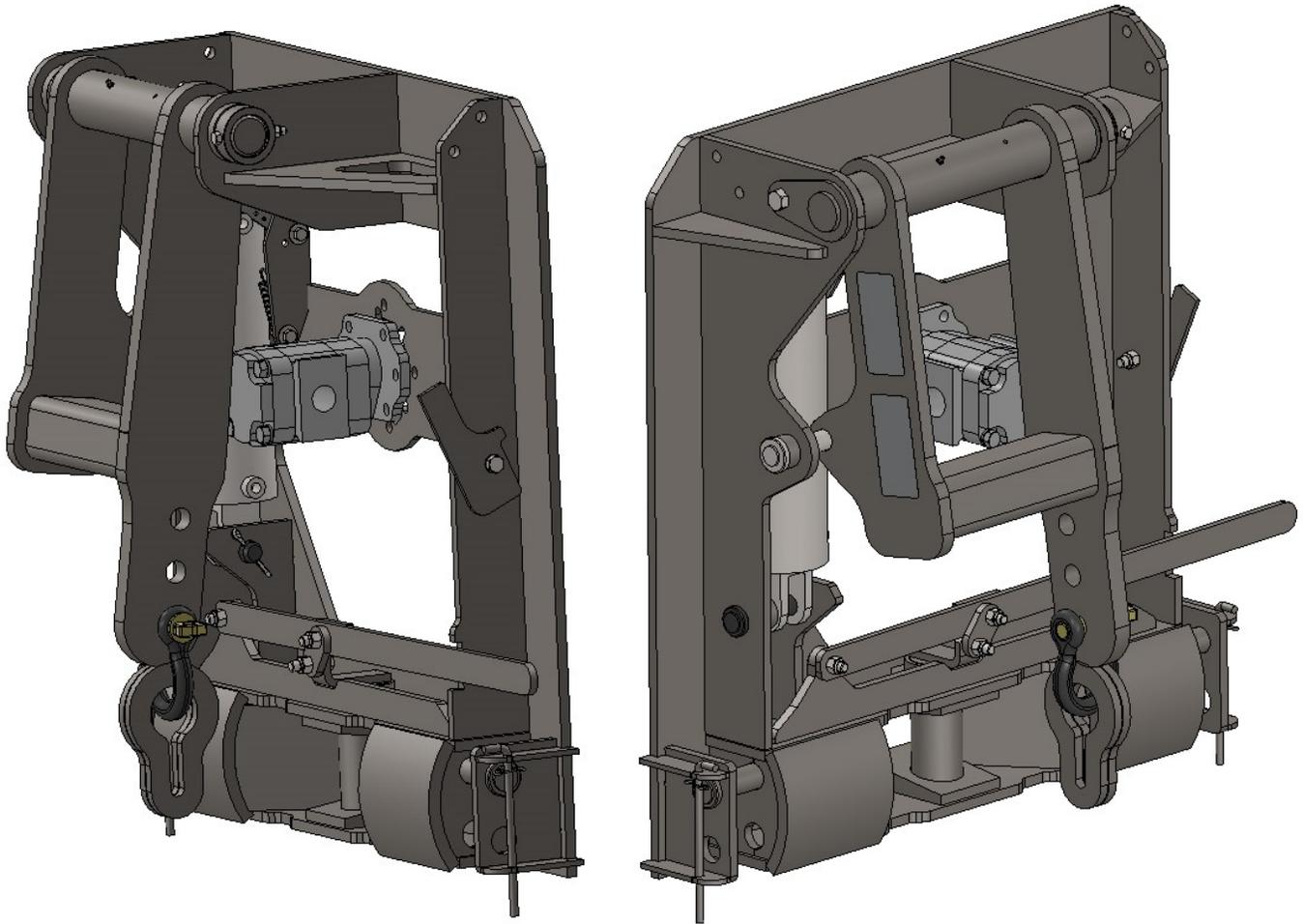
LEVEL RAISE LIFT SYSTEM ADJUSTMENT		
<p>THE BONNELL LEVEL RAISE LIFT SYSTEM CARRIAGE ASSEMBLY ASSISTS IN MAKING THE CUTTING EDGE PARALLEL TO THE GROUND.</p>  <p>BEFORE STARTING:</p> <ol style="list-style-type: none"> 1. VERIFY CHAINS ARE NOT TWISTED. 2. VERIFY CHAINS ARE ATTACHED TO THE LIFT ARM WITH THE SAME NUMBER OF LINKS. 3. OBSERVE IF PLOW IS "OVER LEVEL" OR "UNDER LEVEL", AT RIGHT. 4. USING THE STEPS ABOVE SHOULD ACHIEVE GOOD LEVELING RESULTS WITH ALL BONNELL EQUIPMENT. 5. AS A LAST RESORT, REFER TO CARRIAGE BOLT ADJUSTMENT, LOWER RIGHT HAND CORNER. 	<p>OVER LEVELING: WHEN THE PLOW IS REVERSED, THE INTAKE END IS LOW (END FARTHEST FORWARD)</p>  <p>HOOKUP POINT FOR CHAINS MUST BE CLOSER TO TRUCK IF PLOW IS OVER LEVELING</p> <p>DISCHARGE END HIGH</p> <p>VIEWED FROM FRONT</p> <p>INTAKE END LOW</p> <p>TO ADJUST FOR OVER LEVELING: MOVE PLOW LIFT CHAINS IN (CLOSER TO THE TRUCK)</p> <p>BON-003853</p>	<p>UNDER LEVELING: WHEN THE PLOW IS REVERSED, THE DISCHARGE END IS LOW (END CLOSEST TO TRUCK)</p>  <p>HOOKUP POINT FOR CHAINS MUST BE FARTHER FROM TRUCK IF PLOW IS UNDER LEVELING</p> <p>DISCHARGE END LOW</p> <p>VIEWED FROM FRONT</p> <p>INTAKE END HIGH</p> <p>TO ADJUST FOR UNDER LEVELING: MOVE PLOW LIFT CHAINS OUT (FARTHER AWAY FROM THE TRUCK)</p> <p>CARRIAGE BOLT ADJUSTMENT (FOR UNDER LEVELING ONLY)</p>  <p>FURTHER ADJUSTMENT FOR UNDER LEVELING:</p> <p>WITH PLOW IN BULLDOZE POSITION, MOVE ALL THREE PIVOT BOLTS ON CARRIAGE BACK ONE HOLE. REPEAT STEP 3.</p>

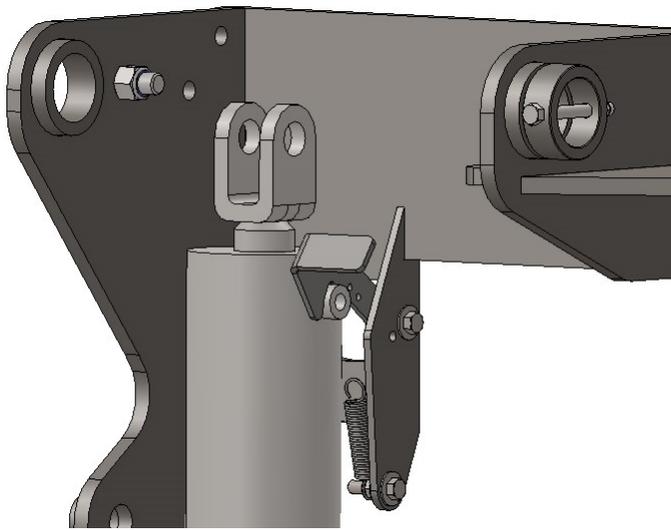
! WARNING		! WARNING	
	<p>CRUSHING HAZARD Serious injury or death can occur</p> <ul style="list-style-type: none"> • Do not overtighten chain clevis bolts. • Clevis bolts must spin freely in clevises when installed properly. 		<p>CRUSHING HAZARD Serious injury or death can occur</p> <ul style="list-style-type: none"> • Do not overlift plow. Proper lift height not to exceed 14". • Increase slack in lifting chains or cables to prevent binding.
		 <p>14" MAX</p>	

QXR Series Hitch Features

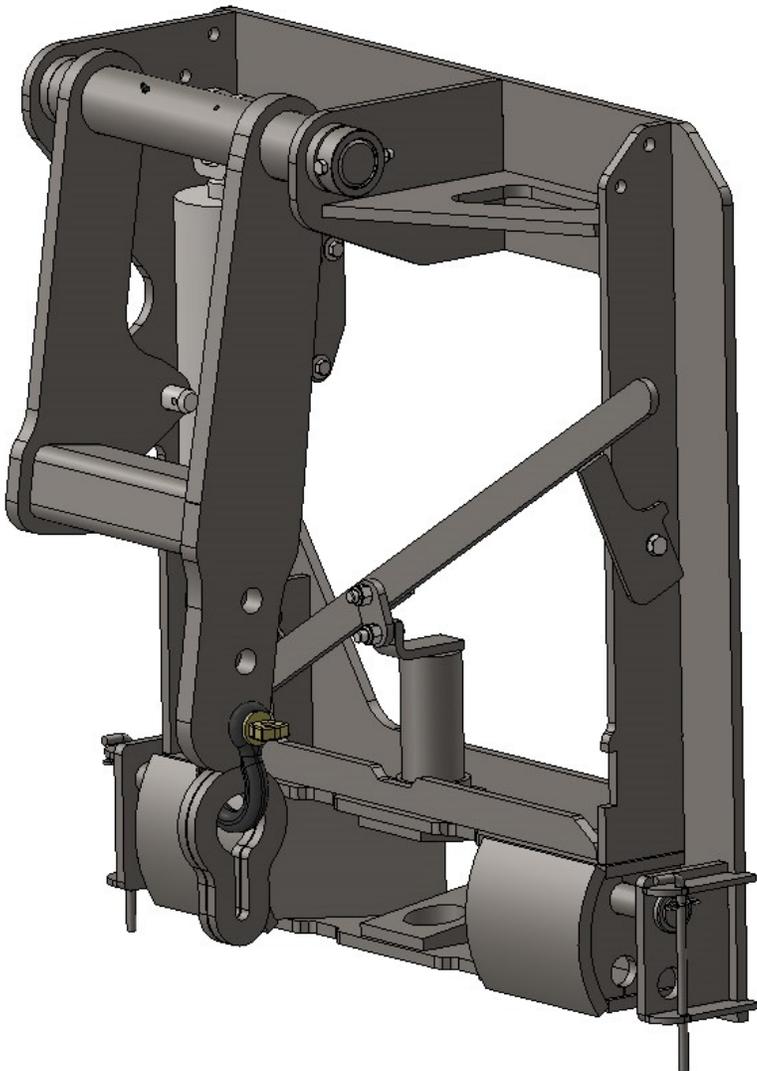
A key feature of the QXR hitch is the ability to accept a front mounted crank shaft driven hydraulic pump. The design allows the pump to protrude through the center of the hitch, allowing for a closer mounting of the hitch to the chassis.

NOTE: the fold down lift arm design is limited by how far the pump protrudes through the hitch, and how high the pump is mounted on the hitch frame. Not every pump will allow the lift arm to fold down using a face mount flange mounted directly to the hitch. If the fold down option is required, pin the lift arm in place before permanently mounting the pump and trial fit. Pumps 8" long or shorter should fit behind the lift arm when it is folded down completely.





Note that a spring-loaded retainer has been provided to help retain the cylinder in the stowed position. When stowing, simply push the cylinder into the stowed position, locking the cylinder in place.



The hitch is equipped with an upper handle rest, which automatically retains the handle in the up position. To release, push the latch in to let the handle past.

Two sets of holes are provided for optional swivel bar hook-up. Install pins as shown.

Either the top or bottom holes may be used.

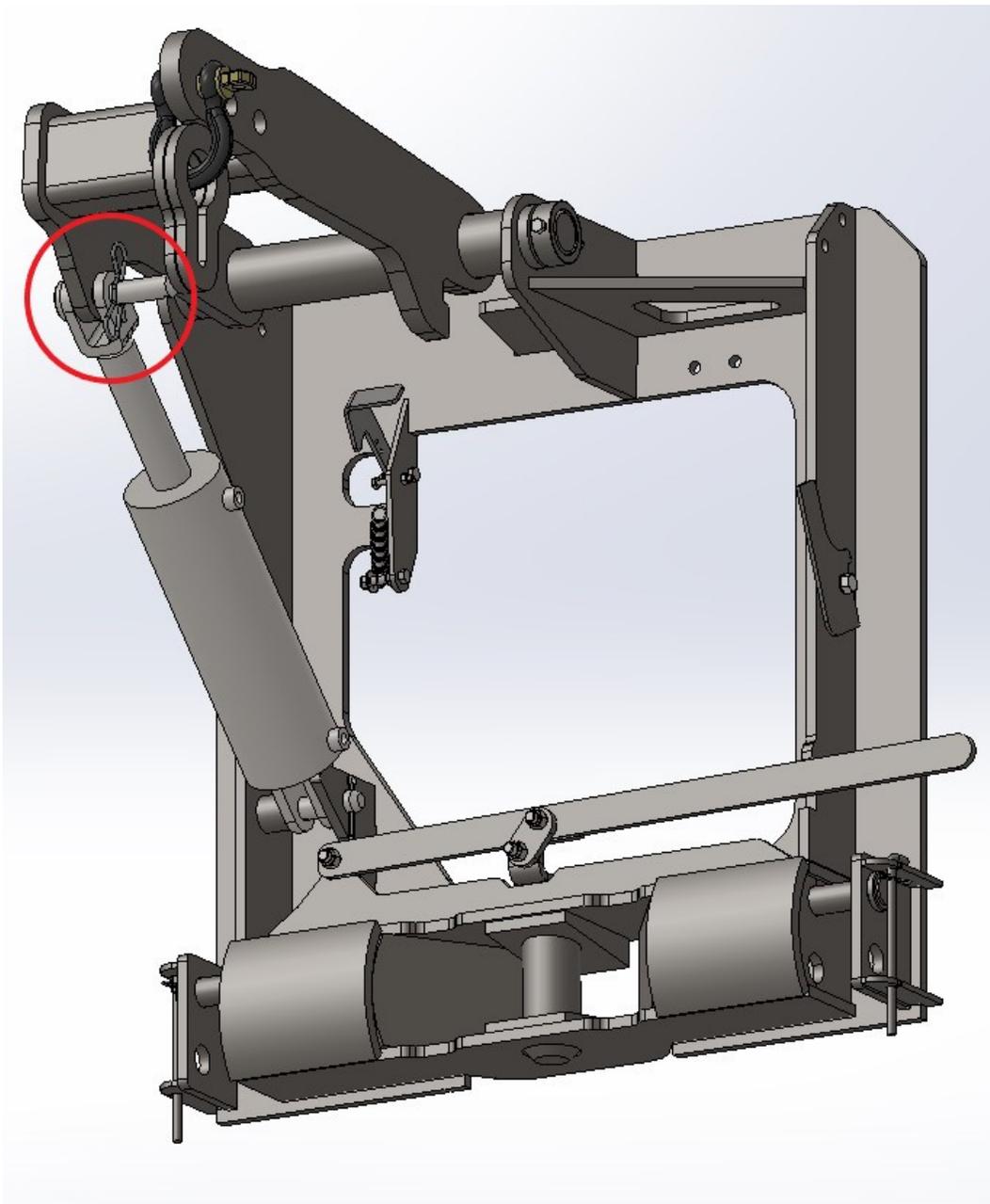
Deploying the Lift Arm



Cylinder to lift arm pin must be properly attached. Failure to do so may cause damage to moldboard trip springs or hitch.

QXR or QLXR Hitch:

When attaching the lift arm to the lift cylinder, the pin needs to be fully inserted to allow the bow tie cotter pin to be installed in the hole closest to the head of the pin as seen below. If the cotter pin is installed in the furthest hole, the main pin could wander out to the side and potentially interfere with other parts of the plow resulting in damage.



Stowing the Lift Arm



When the plow hitch is not being used, the lift arm must be in its stowed position or removed for safety.

Low Profile or Tilt Out Hitches:

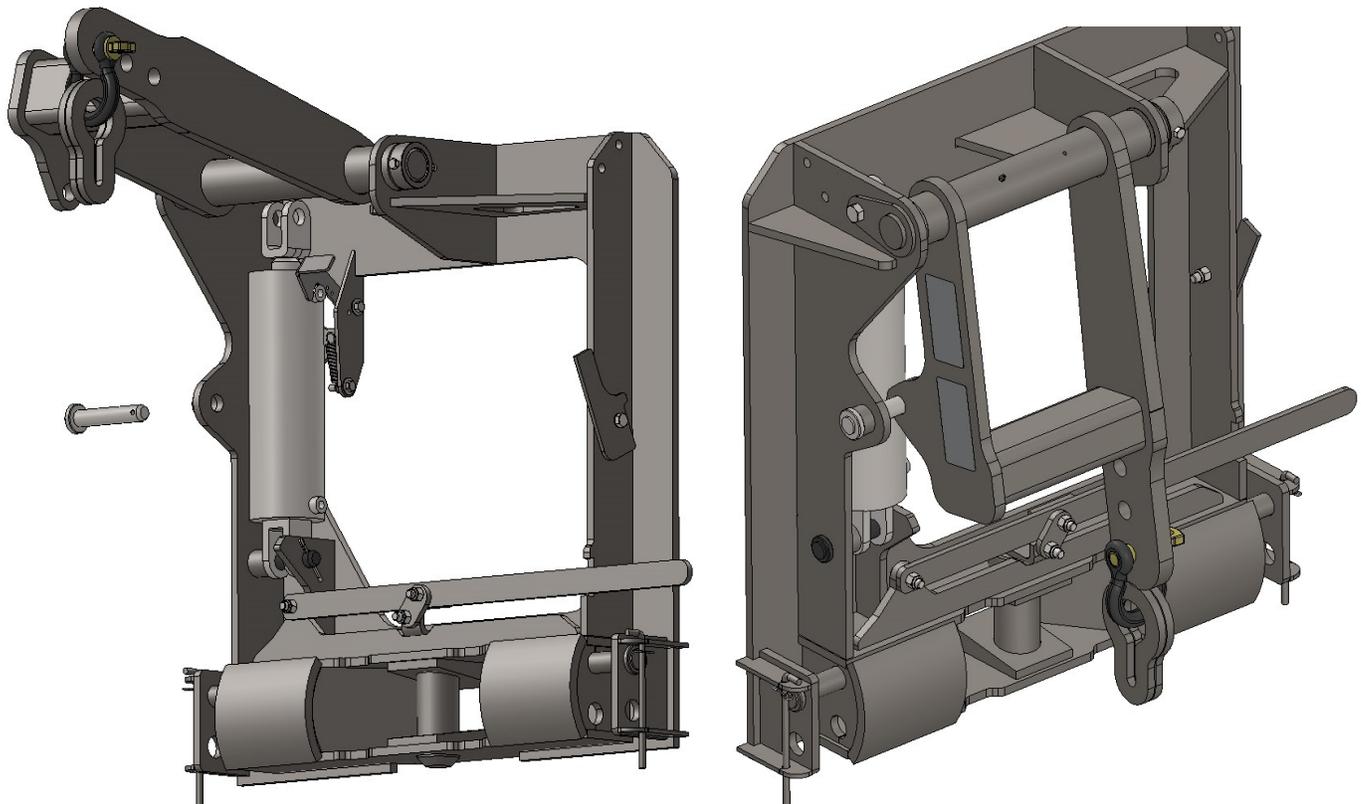
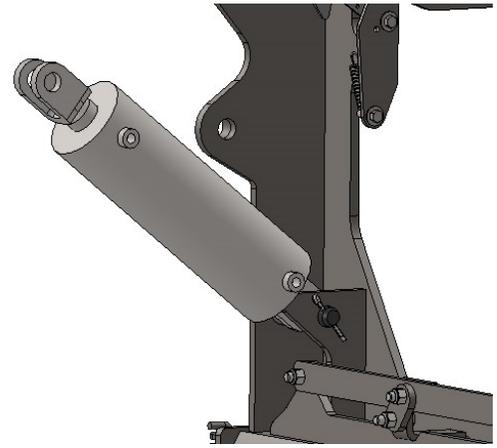
1. Fully retract the cylinder so the lift arm is in its lowest position.
2. Pull the pin and remove the inner lift arm. Store the lift arm in a safe place.

Note – for additional clearance and safety, the complete lift arm and cylinder can be removed from the above hitches during the off season.

QXR or QLXR Hitch:

1. (Right): Retract cylinder, and remove the upper cylinder pin. Hitch has a built-in lower rest to prevent cylinder from dropping.
2. (Below, left): Swing the cylinder up to a vertical position and secure in place with spring loaded latch.
3. (Below right): Swing the lift arm down and secure in place using the cylinder pin and hole provided.

Note – in some cases a front mount pump on the truck will hinder the lift arm from being swung down and pinned in the provided hole. In this case, secure the lift arm safely or remove completely.

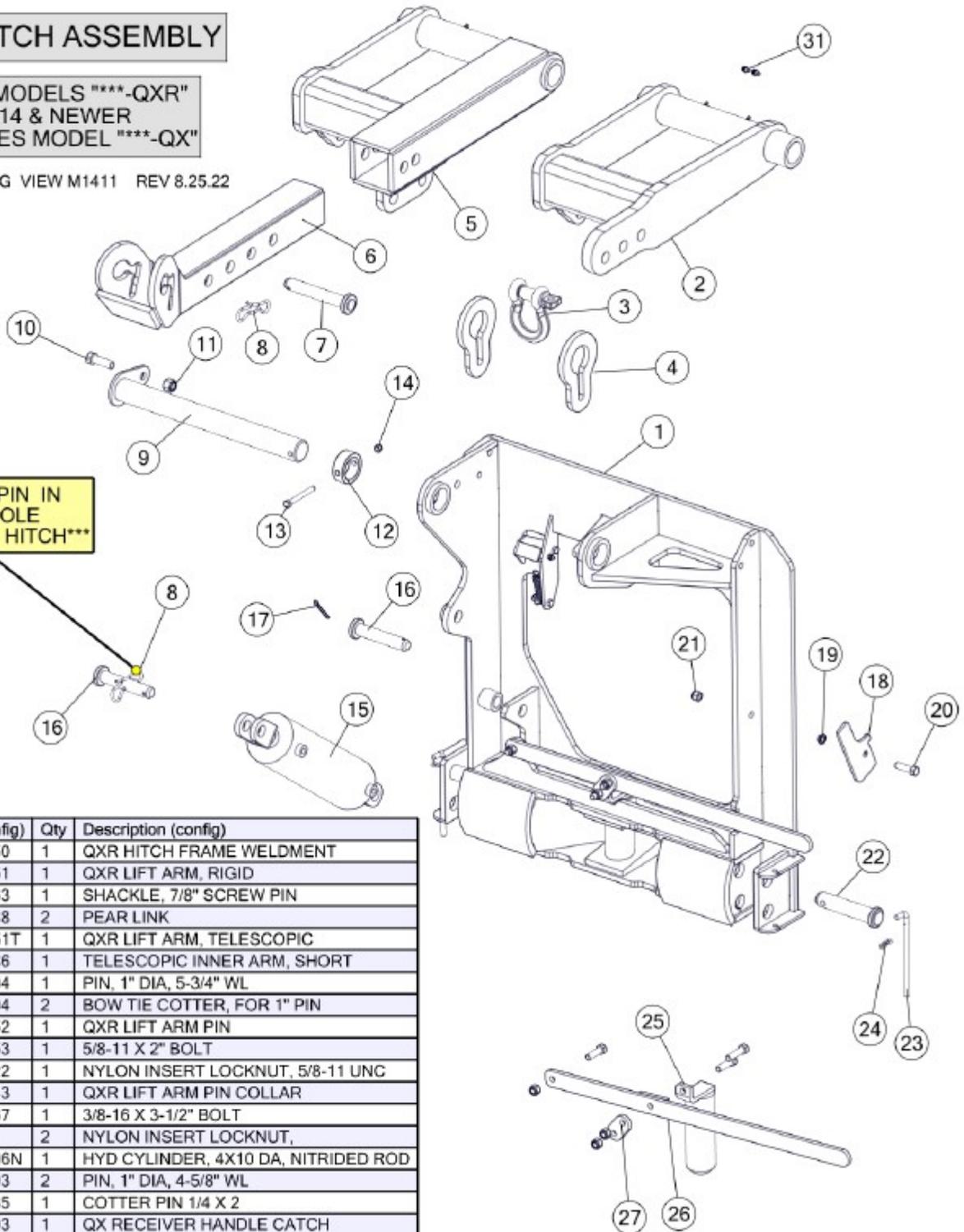


QXR HITCH ASSEMBLY

HITCH MODELS ****-QXR"
2014 & NEWER
REPLACES MODEL ****-QX"

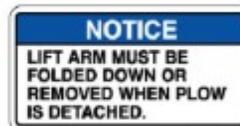
BON-002949.SMG VIEW M1411 REV 8.25.22

***INSTALL PIN IN
CLOSEST HOLE
ON QX/QXR HITCH***



BOM ID	PartNo (config)	Qty	Description (config)
1	BON-002950	1	QXR HITCH FRAME WELDMENT
2	BON-002951	1	QXR LIFT ARM, RIGID
3	BON-000663	1	SHACKLE, 7/8" SCREW PIN
4	BON-000988	2	PEAR LINK
5	BON-002951T	1	QXR LIFT ARM, TELESCOPIC
6	BON-002886	1	TELESCOPIC INNER ARM, SHORT
7	BON-000994	1	PIN, 1" DIA, 5-3/4" WL
8	BON-000404	2	BOW TIE COTTER, FOR 1" PIN
9	BON-002952	1	QXR LIFT ARM PIN
10	BON-000153	1	5/8-11 X 2" BOLT
11	BON-000322	1	NYLON INSERT LOCKNUT, 5/8-11 UNC
12	BON-002943	1	QXR LIFT ARM PIN COLLAR
13	BON-000067	1	3/8-16 X 3-1/2" BOLT
14	BON-00031	2	NYLON INSERT LOCKNUT,
15	BON-003606N	1	HYD CYLINDER, 4X10 DA, NITRIDED ROD
16	BON-000993	2	PIN, 1" DIA, 4-5/8" WL
17	BON-000385	1	COTTER PIN 1/4 X 2
18	BON-002903	1	QX RECEIVER HANDLE CATCH
19	BON-008704	1	BRONZE BUSHING 1/2 ID 5/8 OD
20	BON-000108	3	1/2-13 x 1-3/4" BOLT
21	BON-000321	1	NYLON INSERT LOCKNUT, 1/2-13 UNC
22	BON-000292.3	2	PIN, 1-1/4X5-3/4 BUTTON HEAD 4-3/4" W
23	BON-001043	2	QA RECEIVER LOCKING PIN
24	BON-000402	2	BOW TIE COTTER, FOR 3/8" PIN
25	BON-001046	1	QA DROP PIN WELDMENT
26	BON-001047	1	QAR LATCH LEVER
27	BON-001048	1	QAR LEVER LINKAGE
31	BON-000652	2	1/8" NPT STRAIGHT GREASE FITTING

APPLY WARNING LABELS TO LIFT ARM:



BON-003834

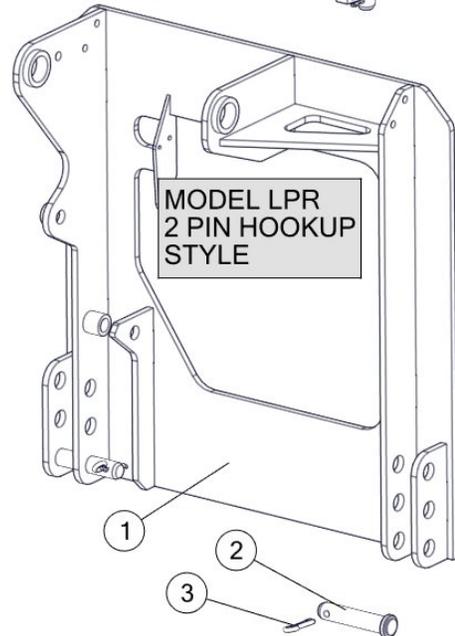
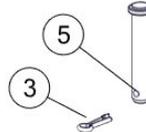
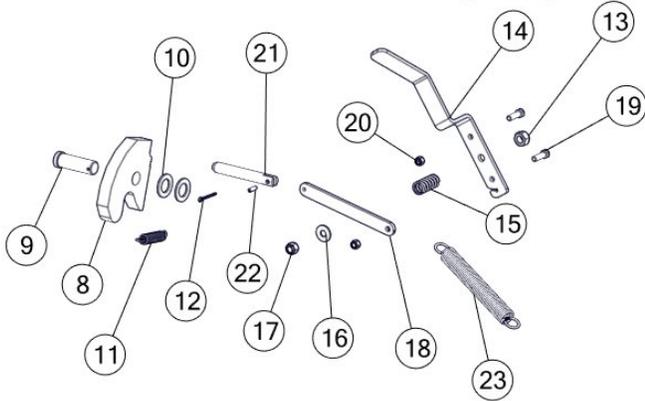
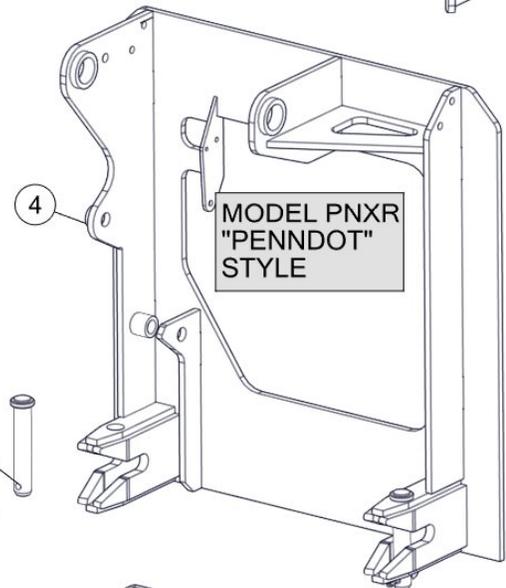
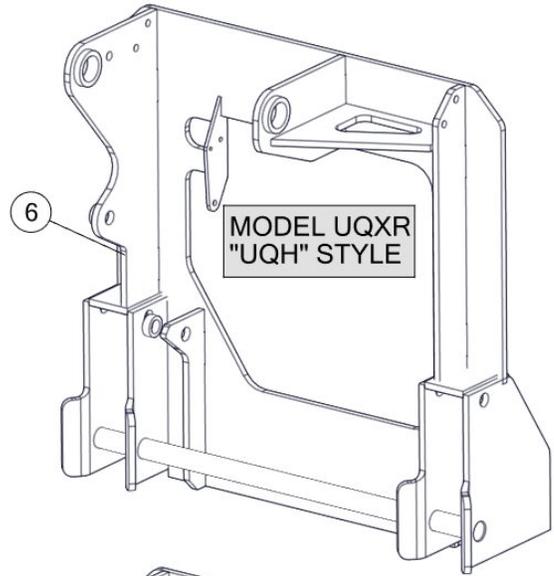
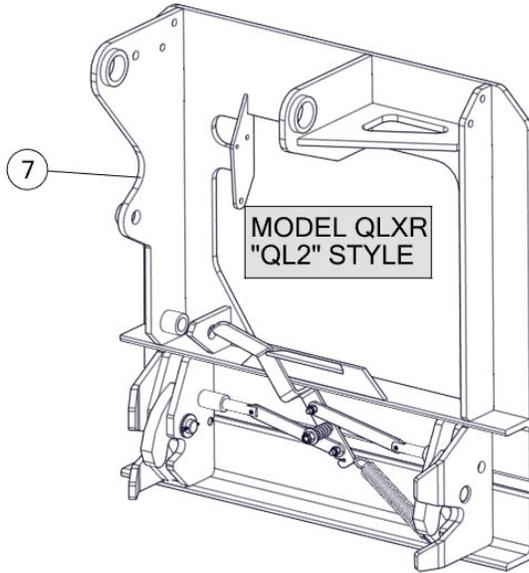


BON-003835

QXR HITCH VARIATIONS

FOR LIFT ARMS & CYLINDER, SEE "QXR HITCH" PARTS BREAKDOWN

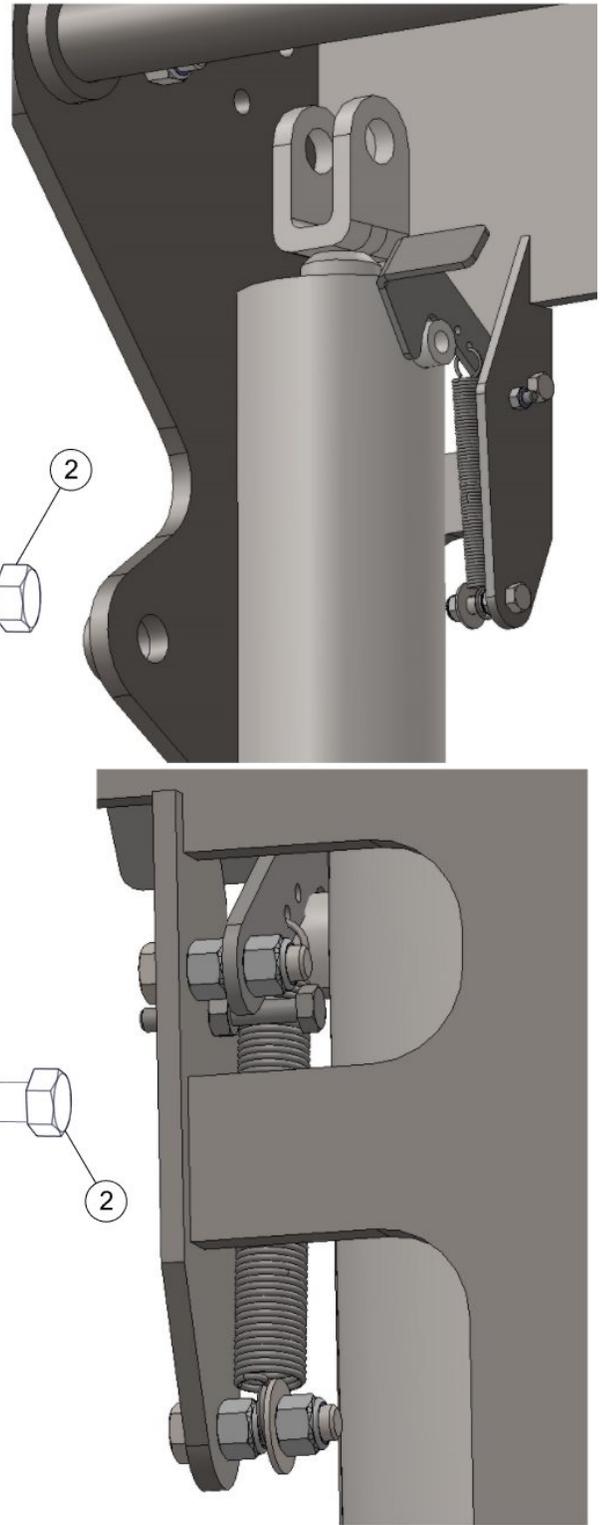
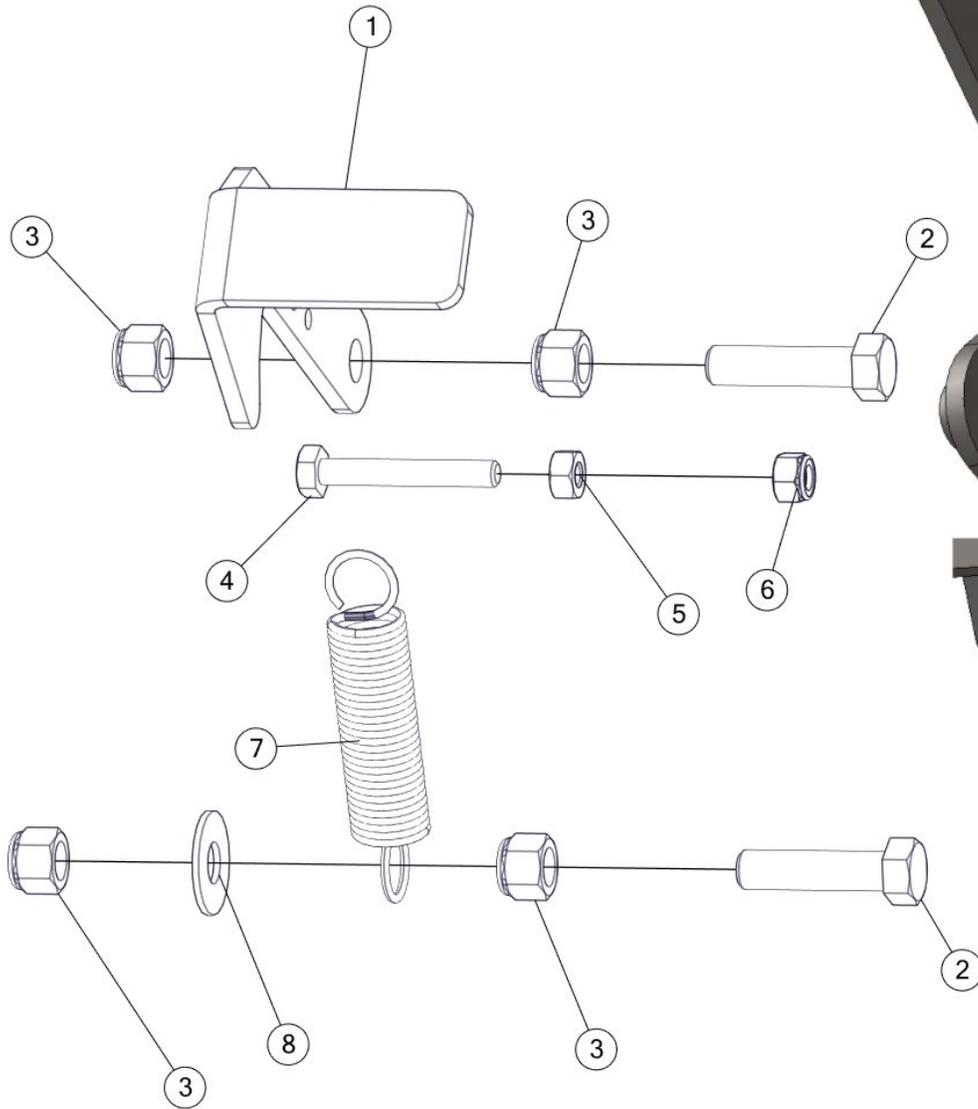
QXR VARIATIONS.SMG REV 1.23.20



BOM ID	PartNo (config)	Qty	Description (config)
1	BON-002959	1	HITCH FRAME, LPR
2	BON-000292.3	2	PIN, 1-1/4X5-3/4 BUTTON HEAD 4-3/4" WORKING LENGTH
3	BON-000292.1	2	GUEST PIN FOR 1/2" HOLE ALSO CALLED A CLINCH PIN
4	BON-002955	1	HITCH FRAME, PNXR
5	BON-002937	2	PIN, 1-1/4 X 6" WL
6	BON-002957	1	HITCH FRAME, UQXR
7	BON-002953	1	HITCH FRAME, QLXR
8	BON-002202	1	QL2 LATCH PLATE
9	BON-002210	1	PIN, 1" X 2.8" WL, C1045
10	WES-91192	2	1" SAE FLAT WASHER
11	BON-002209	1	QL2 RECEIVER EXTENSION SPRING LATCH TENSION
12	BON-000379	1	COTTER PIN, 5/32" X 1-1/2"
13	BON-000307	1	HEX NUT, 5/8"-11TPI
14	BON-002205	1	QL2 LATCH HANDLE
15	BON-002207	1	COMPRESSION SPRING, .87" X 2"
16	BON-000340	1	FLAT WASHER, 1/2
17	BON-000321	1	NYLON INSERT LOCKNUT, 1/2-13 UNC
18	BON-002204	1	QL2 LINKAGE ARM
19	BON-000058	2	3/8-16 X 1-1/4" BOLT
20	BON-000319	1	NYLON INSERT LOCKNUT, 3/8-16 UNC
21	BON-002203	1	QL2 BULLET PIN
22	BON-002211	1	ROLL PIN, 1/4" X 3/4"
23	BON-002208	1	EXTENSION SPRING, 1" X 8.5"

QXR SERIES CYLINDER LATCH

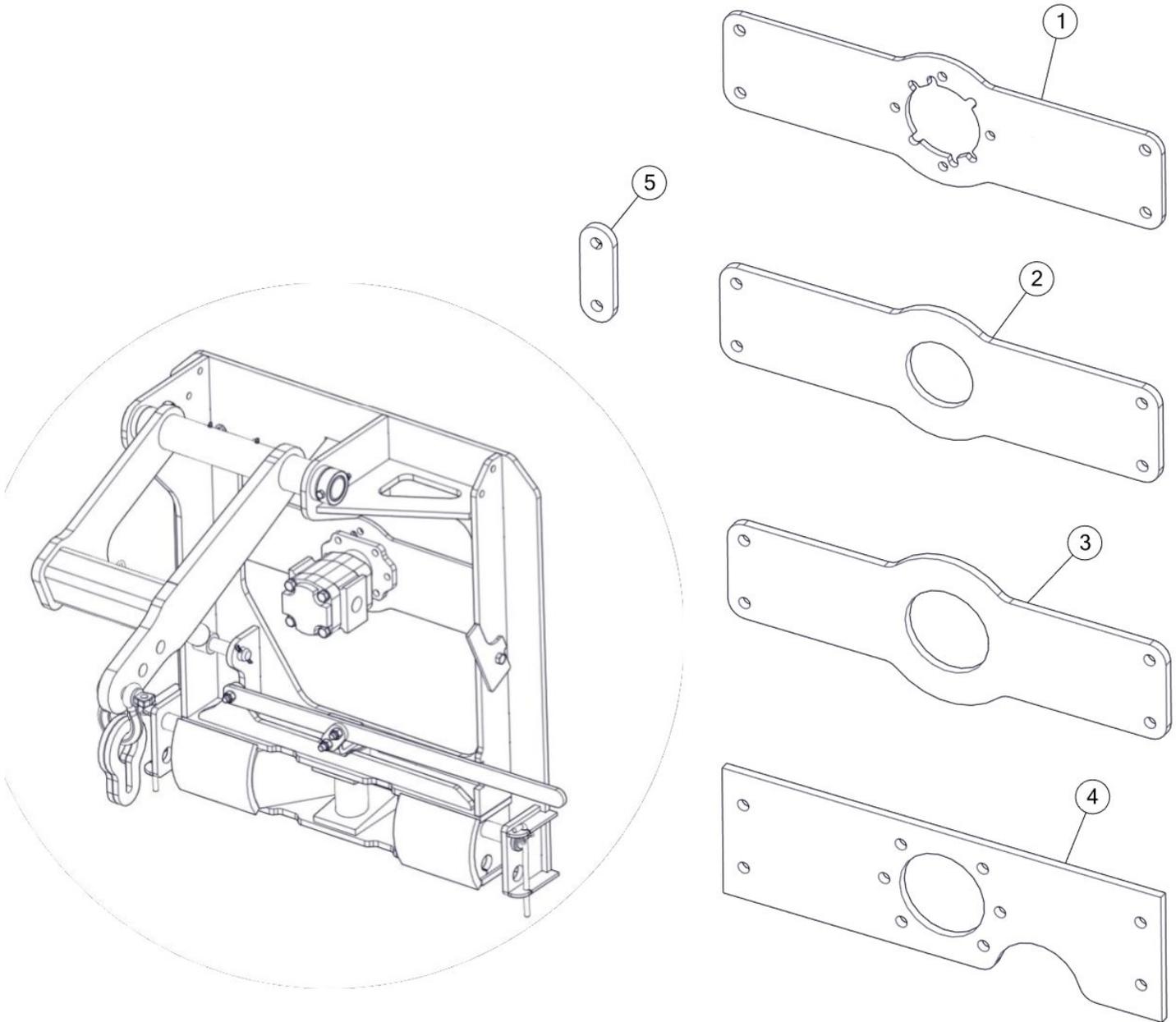
BON-002949.SMG/LATCH REV. 092016



BOM ID	PartNo (config)	Qty	Description (config)
1	BON-008703SS	1	DUMP BODY LADDER LATCH SS
2	BON-000059SS	2	3/8-16 X BOLT 1-1/2" SS
3	BON-000319SS	4	NYLON INSERT LOCKNUT, STAINLESS 3/8-16 UNC
4	BON-000008SS	1	1/4-20 x 1-3/4" BOLT SS
5	BON-000301SS	1	STAINLESS HEX NUT, 1/4"-20TPI
6	BON-000318SS	1	NYLON INSERT LOCKNUT, STAINLESS 1/4-20 UNC
7	BON-002209SS	1	QL2 RECEIVER EXTENSION SPRING LATCH TENSION
8	BON-000338SS	1	STAINLESS FLAT WASHER, 3/8

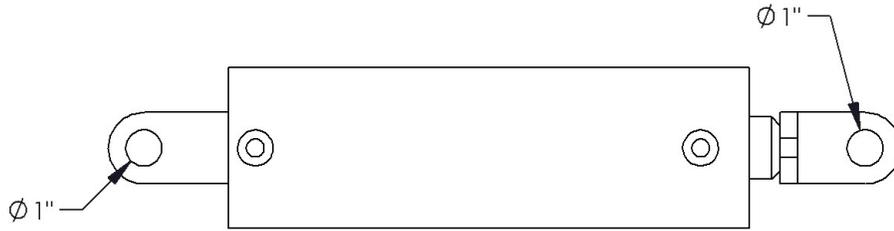
FRONT MOUNT PUMP MOUNTING PLATES FOR SNOW PLOW HITCHES

REV 042015 QX PUMP PLATES.SMG

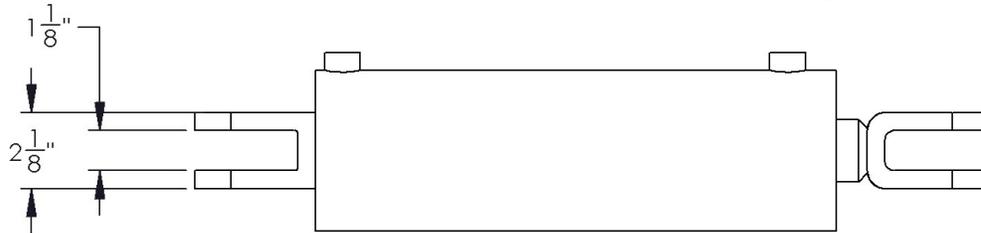


BOM ID	PartNo (config)	Qty	Description (config)
1	BON-002912	1	QX PUMP MOUNTING PLATE, FORCE, 4" ID
2	BON-002905	1	QX PUMP MOUNTING PLATE, 4" ID
3	BON-002904	1	QX PUMP MOUNTING PLATE, 5" ID
4	BON-002916	1	QX PUMP MOUNTING PLATE, LOAD SENSE, 5" ID
5	BON-002907	1	PUMP MOUNT BRACKET SPACER, 1/2"

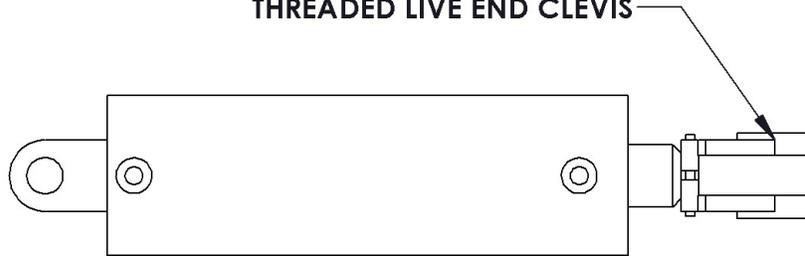
4X10 DOUBLE ACTING LIFT CYLINDER



BON-003606N (CURRENT)



**IDENTIFYING FEATURE:
THREADED LIVE END CLEVIS**



BON-003606 (OBSOLETE)

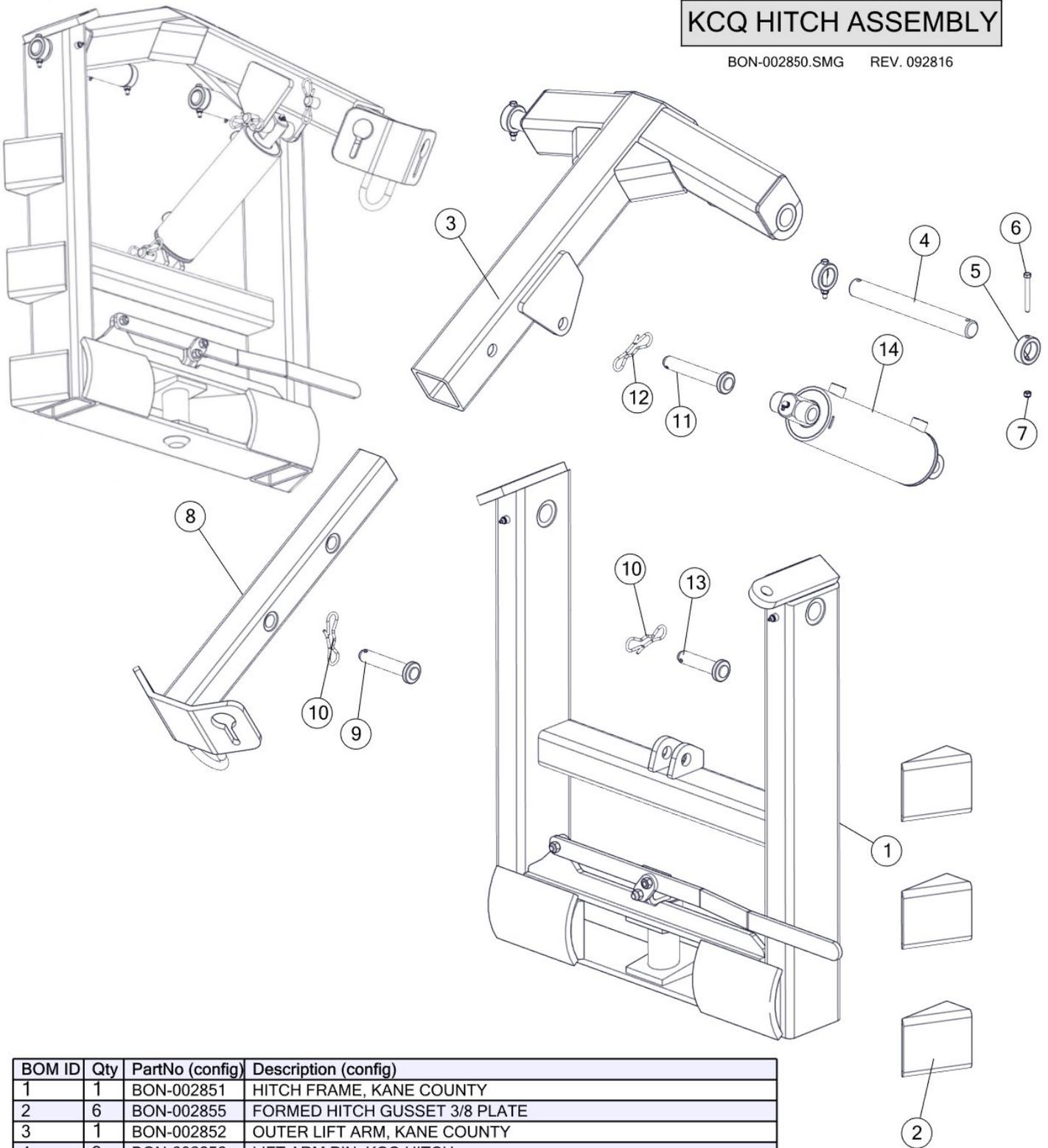


PART NUMBER	PACKING KIT	BORE (IN)	ROD DIAM (IN)	STROKE (IN)	RETRACTED LENGTH (IN)	PORT SIZE (IN)	TYPE
BON-003606N	RKT4000-BON4	4	1.75	10	20.25	1/2	NPTF
BON-003606	PMC-PMCK-44000	4	1.75	10	20.25	1/2	NPTF

01

KCQ HITCH ASSEMBLY

BON-002850.SMG REV. 092816



BOM ID	Qty	PartNo (config)	Description (config)
1	1	BON-002851	HITCH FRAME, KANE COUNTY
2	6	BON-002855	FORMED HITCH GUSSET 3/8 PLATE
3	1	BON-002852	OUTER LIFT ARM, KANE COUNTY
4	2	BON-002856	LIFT ARM PIN, KCQ HITCH
5	4	BON-002857	LIFT ARM PIN ON BUSHING, FOR KCQ HITCH
6	4	BON-000038	5/16-18 X 3"BOLT
7	1	BON-000320	NYLON INSERT LOCKNUT, 5/16-18 UNC
8	1	BON-002853	INNER LIFT ARM, KANE COUNTY HITCH
9	1	BON-000993	PIN, 1" DIA, 4-5/8" WL
10	2	BON-000404	BOW TIE COTTER, FOR 1" PIN
11	1	BON-000994	PIN, 1" DIA, 5-3/4" WL
12	1	BON-000404	BOW TIE COTTER, FOR 1" PIN
13	1	BON-000991	PIN, 1" DIA, 3-5/8" WL
14	1	BON-002854	4X10 DOUBLE ACTING, NITRIDED, BUSHED & GREASABLE LIVE END

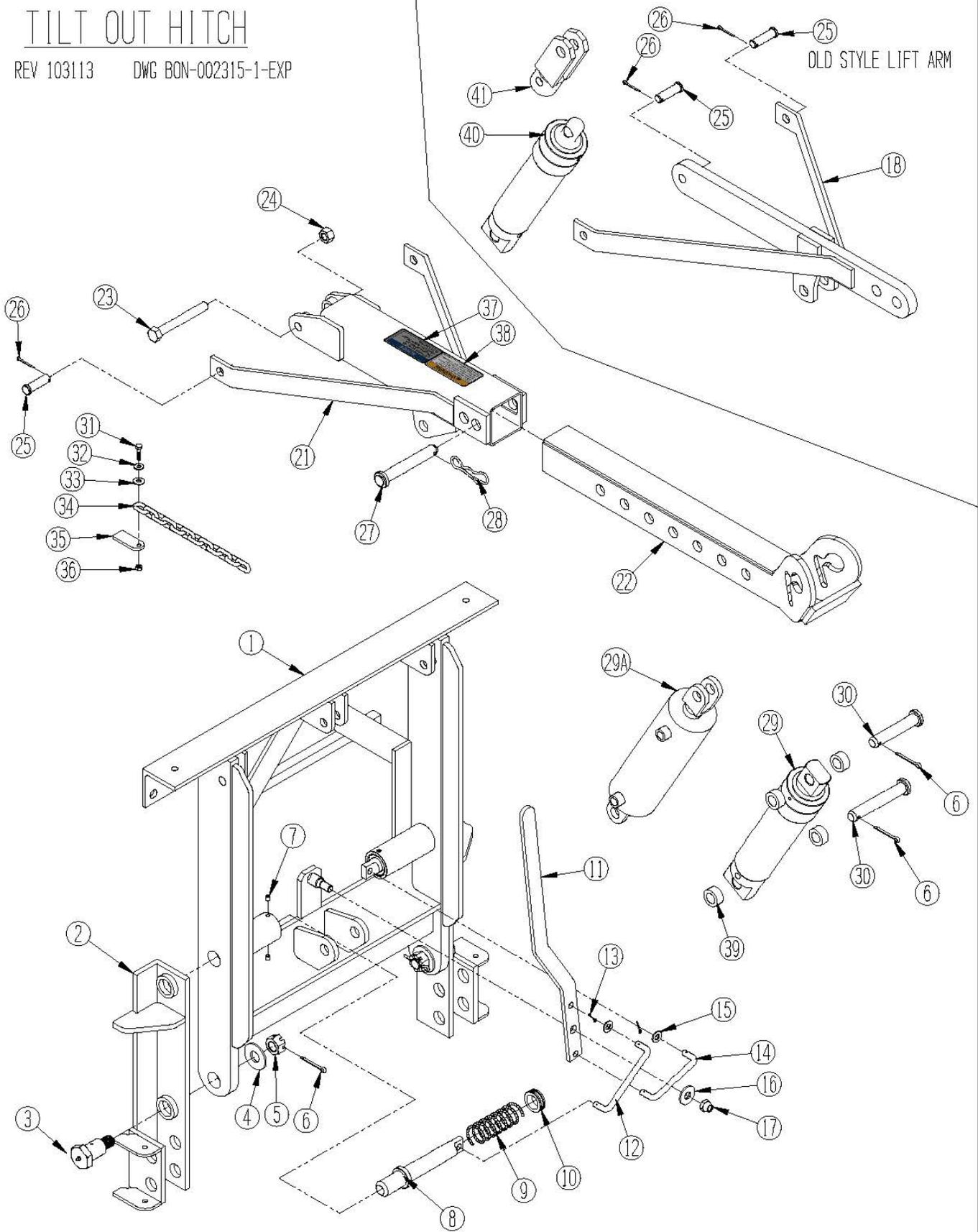
LOW PROFILE HITCH (model designation "LP")

ITEM #	PART #	QTY.	DESCRIPTION
1	BON-003105	1	LOW PROFILE HITCH
2-8	BON-003202	1	TELESCOPIC LIFT ARM ASSEMBLY
2	BON-003202.4	1	TELESCOPIC LIFT ARM OUTER BAR
3	BON-003202.2	1	TELESCOPIC LIFT ARM INNER BAR
6	BON-000995	1	PIN, 1" X 6-5/8" WORKING LENGTH
7	BON-000994	2	PIN, 1" X 5-3/4" WORKING LENGTH
8	BON-000404	1	LOCKING HAIR PIN
9	BON-000993	1	PIN, 1" X 4-5/8" WORKING LENGTH
10	BON-003602P	AR	CYLINDER, 3X10 SINGLE ACTING
10A	BON-003606N	AR	CYLINDER, 4X10 DOUBLE ACTING, NITRIDED
11	BON-003105.5	1	OLD STYLE LIFT ARM FOR 4X10 CYLINDER
12	BON-003105.6	1	OLD STYLE LIFT ARM FOR 3X10 CYLINDER
13	BON-003232	1	OLD STYLE LIFT ARM ROD
14	BON-000385	3	1/4"X2 COTTER PIN
15	BON-003834	1	DECAL, LIFT ARM MUST BE FOLDED DOWN
16	BON-003835	1	DECAL, WARNING PLOW LIFT TO BE PROPERLY ADJUSTED
17	BON-008013	4	BUSHING, FOR 3X10 CYLINDER ONLY
18	BON-003105-5	1	REPLACEMENT TOP ANGLE, LEFT
19	BON-003105-6	1	REPLACEMENT TOP ANGLE, RIGHT
20	BON-003105-9	2	REPLACEMENT PIN BUSHING, REAMED
21	BON-003603	1	3X10 LIFT RAM, LIVE END ROUND
22	BON-001556	1	RAM CAP
23	BON-003186	1	SWIVEL HOOK

TILT OUT HITCH

REV 103113

DWG BON-002315-1-EXP



DIXON, ILLINOIS
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TILT HITCH (model designation "TLT")

ITEM #	PART #	QTY.	DESCRIPTION
1-17	BON-002315.1		HITCH ONLY
1	BON-002320	1	HITCH W/ OUT TILT OUT ANGLES
2	BON-002321	1	R/H TILT OUT ANGLE
	BON-002322	1	L/H TILT OUT ANGLE
3-6	BON-001987	2	PIVOT BOLT ASSEMBLY
3	BON-002328	2	PIVOT BOLT
4	BON-000345	2	1" FLAT WASHER
5	BON-000686	2	1" SLOTTED NUT
6	BON-000385	4	1/4" COTTER PIN
7	SSS-3/8-16X3/8	2	3/8"X 3/8 SET SCREW
8	BON-002329	2	BULLET
9	BON-002334	2	SPRING
10	BON-002335	2	SPRING RETAINER COLLAR
11	BON-002324	1	LEVER
12	BON-002326	1	BULLET TO LEVER LINK, LONG
13	BON-000371	4	1/8"X1 COTTER PIN
14	BON-002325	1	BULLET TO LEVER LINK, SHORT
15	BON-000340.5	4	1/2" SAE WASHER
16	BON-000341	1	5/8" FLAT WASHER
17	BON-000322	1	5/8" LOCK NUT
18,25,26	BON-002337	1	OLD STYLE LIFT ARM ASSEMBLY (NOT SHOWN)
18	BON-002323	1	OLD STYLE TILT OUT LIFT ARM (NOT SHOWN)
21-28	BON-003202.1	1	STANDARD TELESCOPIC LIFT ARM ASSEMBLY
21	BON-003202.3	1	TELESCOPIC LIFT ARM OUTER BAR
22	BON-003202.2	1	TELESCOPIC LIFT ARM INNER BAR
23	BON-000194	1	3/4"X6 HEX BOLT, GRADE 8
24	BON-000323	1	3/4" LOCK NUT
25	BON-000292	2	3/4"X3 PIN
26	BON-000378	2	5/32"X1-1/4 COTTER PIN
27	BON-000994	1	PIN, 1" X 5-3/4" WORKING LENGTH
28	BON-000404	1	LOCKING HAIR PIN
29	BON-003602P	AR	CYLINDER, 3X10 SINGLE ACTING
29A	BON-003606N	AR	CYLINDER, 4X10 DOUBLE ACTING, NITRIDED
30	BON-000993	2	PIN, 1" X 4-5/8" WORKING LENGTH
31-36	BON-002749-KIT	1	TILT CHAIN TIE KIT
31	BON-000031	2	5/16"-18TPI X 1 1/4" LONG GR.8
32	BON-000337	2	FLATWASHER,5/16" U.S.S. ZP
33	BON-000338	2	FLATWASHER,3/8" ZP
34	BON-000669.4	2	CHAIN, 1/4" PLATED
35	BON-002749	2	HFFT CHAIN TIE
36	BON-000320	2	5/16"-18TPI HEX LOCK NUT
37	BON-003834	1	DECAL, LIFT ARM MUST BE FOLDED DOWN
38	BON-003835	1	DECAL, WARNING PLOW LIFT TO BE PROPERLY ADJUSTED
39	BON-008013	4	BUSHING, FOR 3X10 CYLINDER ONLY
40	BON-001556	1	RAM CAP
41	BON-003186	1	SWIVEL HOOK

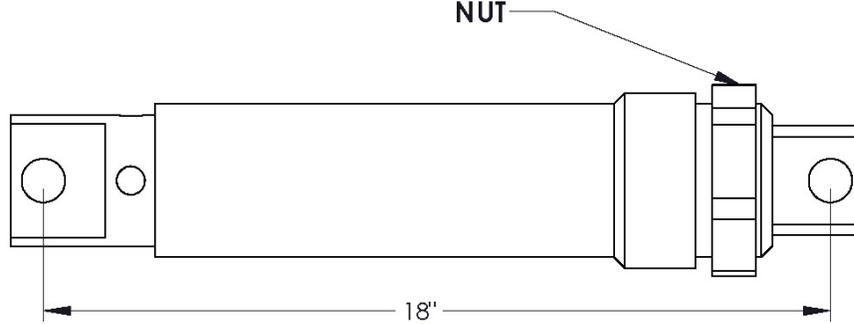
3 X 10 SINGLE ACTING LIFT CYLINDER



BON-003602P (CURRENT)



IDENTIFYING FEATURE:
CHEVRON PACKING
NUT

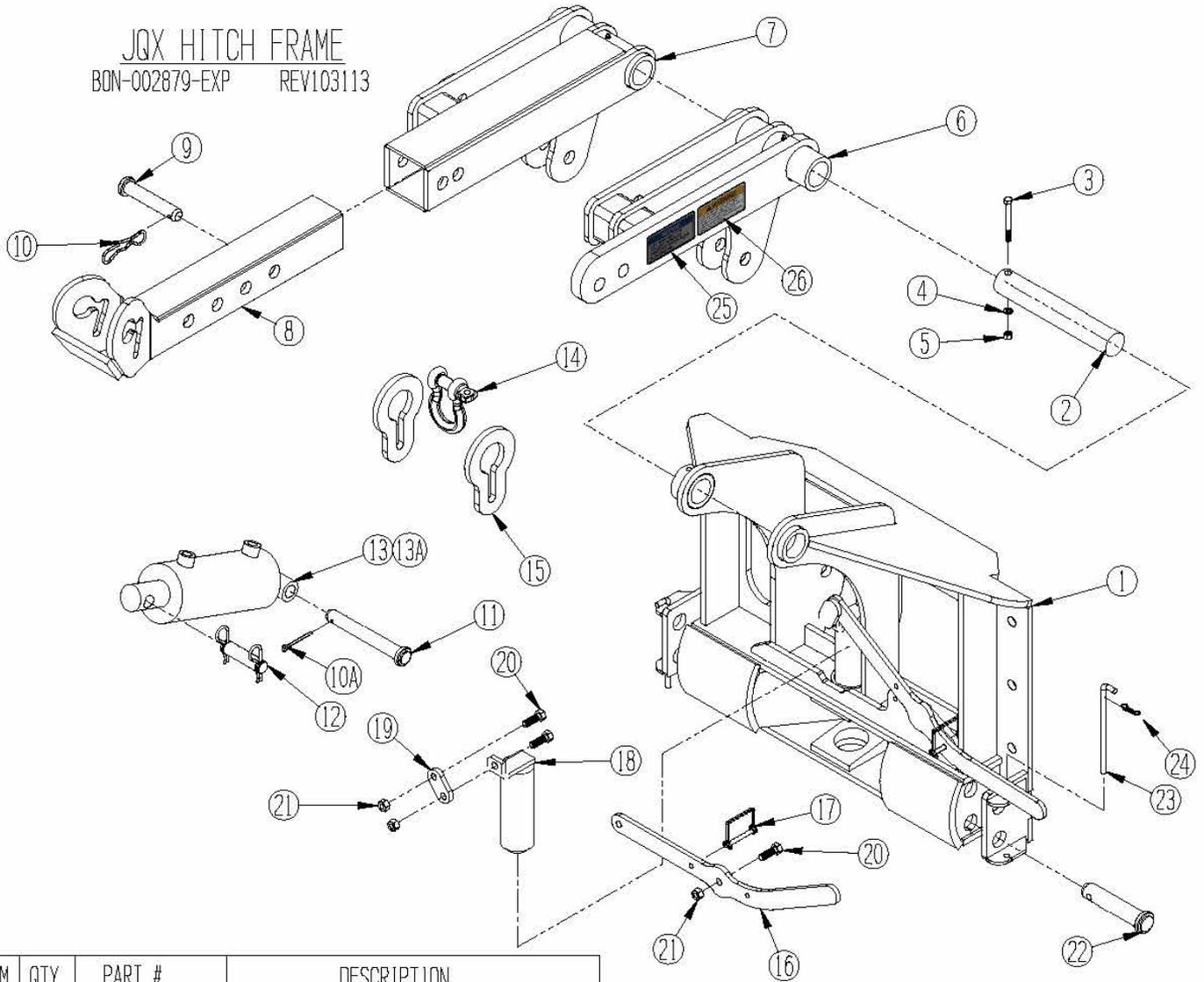


BON-003602 (OBSOLETE)

DESCRIPTION	PART NUMBER	PACKING KIT	WIPER (SOLD SEPARATELY)	ROD DIAM (IN)	STROKE (IN)	PORT SIZE (IN)	TYPE
POLY PACK	BON-003602P	SA-300-RPK-P	N/A	2.5	10	3/8	NPT
CHEVRON PACK	BON-003602	MON-05143	MON-05141	2.5	10	3/8	NPT

04

JQX HITCH FRAME
 BON-002879-EXP REV103113



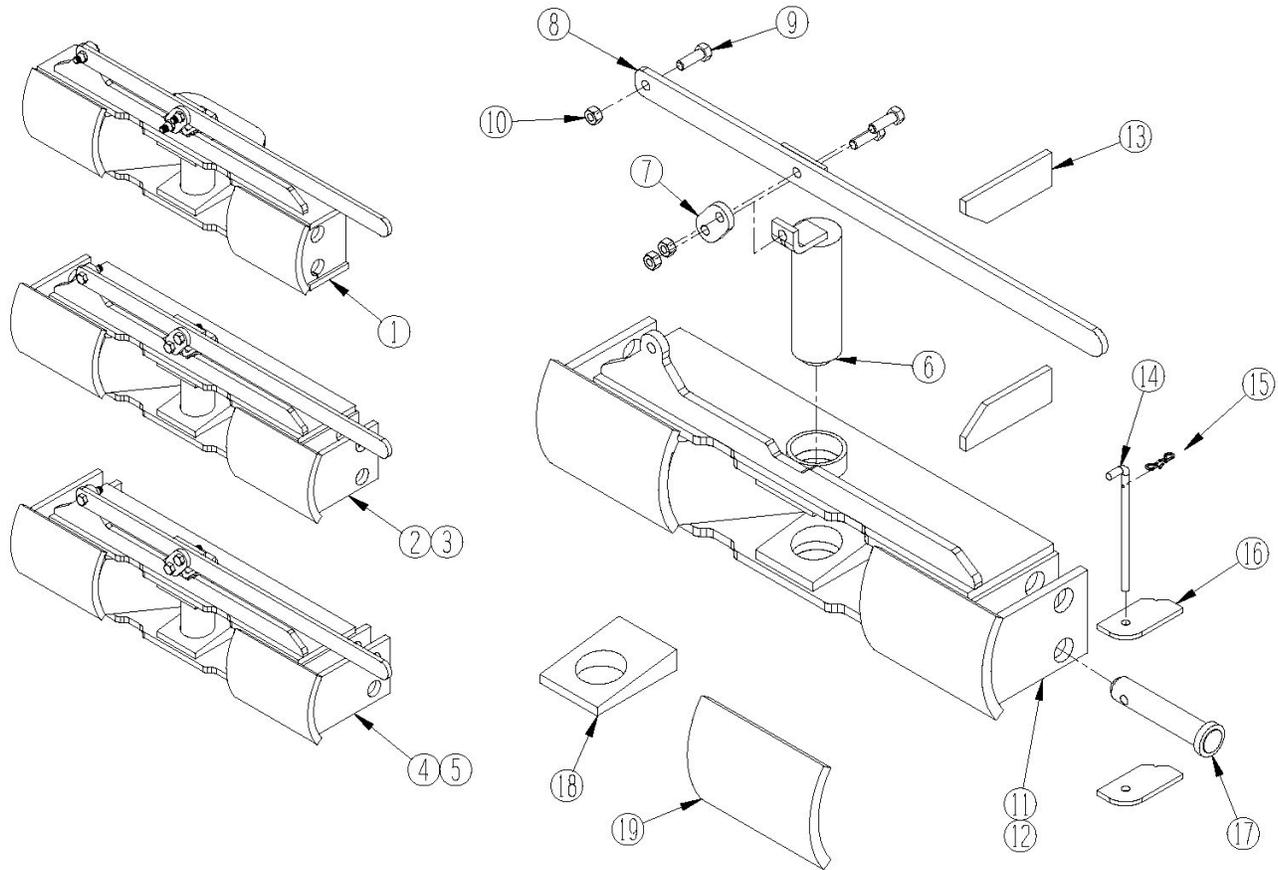
ITEM	QTY	PART #	DESCRIPTION
1	1	BON-002880	JQX HITCH FRAME
2	1	BON-002884	JQX LIFT ARM PIN
3	1	BON-000067	3/8" -16TPI X 3 1/2" LONG GR.8
4	1	BON-000352	LOCK WASHER, 3/8 MED SPLIT ZP
5	1	BON-000303	3/8" -16 HEX NUT ZP GRADE 5 NUT
6	1	BON-002882	JQX LIFT ARM
7	1	BON-002885	JQX LIFT ARM, TELESCOPIC
8	1	BON-002886	TELESCOPIC LIFT ARM INNER TUBE
9	1	BON-000993	PIN, 1" DIAx5-1/4"LG
10	1	BON-000404	LOCKING HAIR PIN
10A	1	BON-000385	1/4X2 COTTER PIN
11	1	BON-000995	PIN, 1" x7-1/2" LG 6-5/8"
12	1	PMC-190400004	CLEVIS PIN, 1" X 3-1/4"
13	1	BON-002883	LIFT CYLINDER
13A	1	BON-002883-1	CYLINDER PACKING KIT
14	1	BON-000663	SCREW PIN ANCHOR SHACKLE, 7/8"
15	2	BON-000988	PEAR LINK FOR PLOW LIFT 1/2" PLATE
16	1	BON-00	RECEIVER PIN LIFT HANDLE
17	1	BUY-66053	SNAPPER PIN 5/16" X 2-3/4"
18	1	BON-001046	QA RECEIVER PIN WELDMENT
19	1	BON-001048	Q. A. RECEIVER LEVER LINK
20	3	BON-000107	1/2"-13TPI X 1 1/2" GRADE 8 BOLT
21	3	BON-000305	1/2"-13TPI HEX NUT ZP GRADE 5
22	2	BON-000292.3	PIN, 1-1/4X5-3/4 BUTTON HEAD
23	2	BON-001043	QA RECEIVER LOCK PINS
24	2	BON-000402	LOCKING HAIR PIN
25	1	BON-003834	DECAL-LIFT ARM MUST BE FOLDED DOWN
26	1	BON-003835	DECAL-WARNING PLOW LIFT ARM ADJUSTED



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QUICK ATTACH RECEIVERS

FOR RECEIVERS MADE AFTER 2-1-2003
REV. 103113 BON-001027-EXP



1	AR	BON-001027.1	TRUCK SECTION, WELD IN STYLE	11	AR	BON-002303	STANDARD EAR
2	AR	BON-001027	TRUCK SECTION, STANDARD PIN-UP STYLE	12	AR	BON-002303.5	MONROE EAR
3	AR	BON-001042	ENTIRE ASSEMBLY, STANDARD BONNELL STYLE W/PINS				
4	AR	BON-001027.5	TRUCK SECTION, MONROE PIN-UP STYLE	13	2	BON-001045	LEVER RETAINERS
5	AR	BON-001042.1	ENTIRE ASSEMBLY, MONROE STYLE W/PINS	14	2	BON-001043	LOCK PIN
6	1	BON-001046	MAIN DROP PIN	15	2	BON-000402	LOCKING HAIR PIN
7	1	BON-001048	LEVER TO PIN LINK	16	4	BON-001044	LOCK PIN EARS
8	1	BON-001047	LEVER	17	4	BON-000292.3	1-1/4"X5-3/4 PIN
9	3	BON-000107	1/2"X1-1/2 HEX BOLT, GRADE 8	18	AR	BON-002307	REPLACEMENT WEDGE
10	3	BON-000305	1/2" HEX NUT, GRADE 5	19	AR	BON-002301	REPLACEMENT CURVED PLATE
ITEM	QTY	PART #	DESCRIPTION	ITEM	QTY	PART #	DESCRIPTION

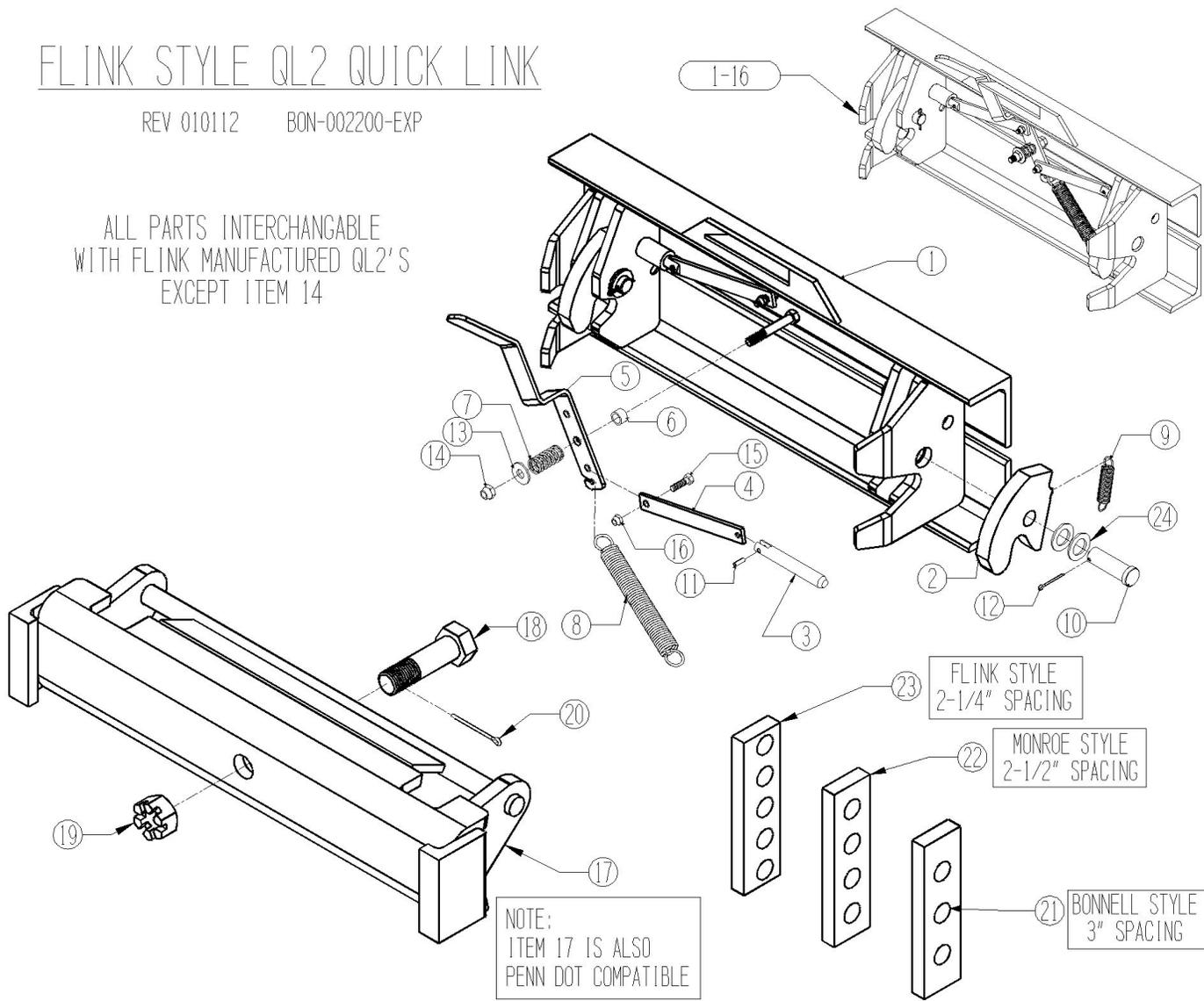


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FLINK STYLE QL2 QUICK LINK

REV 010112 BON-002200-EXP

ALL PARTS INTERCHANGABLE
WITH FLINK MANUFACTURED QL2'S
EXCEPT ITEM 14



NOTE:
ITEM 17 IS ALSO
PENN DOT COMPATIBLE

1-16	1	BON-002200	COMPLETE ASSEMBLY	13	1	BON-000340	1/2" FLAT WASHER
1	1	BON-002201	QL2 RECEIVER MAIN WELDMENT	14	1	BON-000321	1/2" HEX LOCK NUT
2	2	BON-002202	LATCH PLATE	15	2	BON-000058	3/8" X 1-1/4 HEX BOLT
3	2	BON-002203	BULLET PIN	16	2	BON-000319	3/8" HEX LOCK NUT
4	2	BON-002204	PIN LINKAGE	17	1	BON-002250	QL2 SWIVEL BAR FLINK STYLE
5	1	BON-002205	LATCH LEVER	18-20	1	BON-003681	SWIVEL BAR BOLT ASSEMBLY
6	1	BON-002206	HANDLE SPACER	18	1	BON-003681.1	1-1/2" HEX BOLT ONLY, CROSS DRILLED
7	1	BON-002207	COMPRESSION SPRING	19	1	BON-000687	1-1/2" HEX SLOTTED NUT
8	1	BON-002208	HANDLE TENSION SPRING	20	1	BON-000386	1/4"X3 COTTER PIN
9	2	BON-002209	LATCH PLATE TENSION SPRING	21	AR	BON-002226	ADAPTER PLATE, BONNELL
10	2	BON-002210	1-1/4" X 4-1/4 PIN	22	AR	BON-002227	ADAPTER PLATE, MONROE
11	2	BON-002211	1/4" X 3/4 ROLL PIN	23	AR	BON-002225	ADAPTER PLATE, FLINK
12	2	BON-000379	1/4" X 2 COTTER PIN	24	4	WES-91192	1" SAE WASHER
ITEM	QTY	PART #	DESCRIPTION	ITEM	QTY	PART #	DESCRIPTION



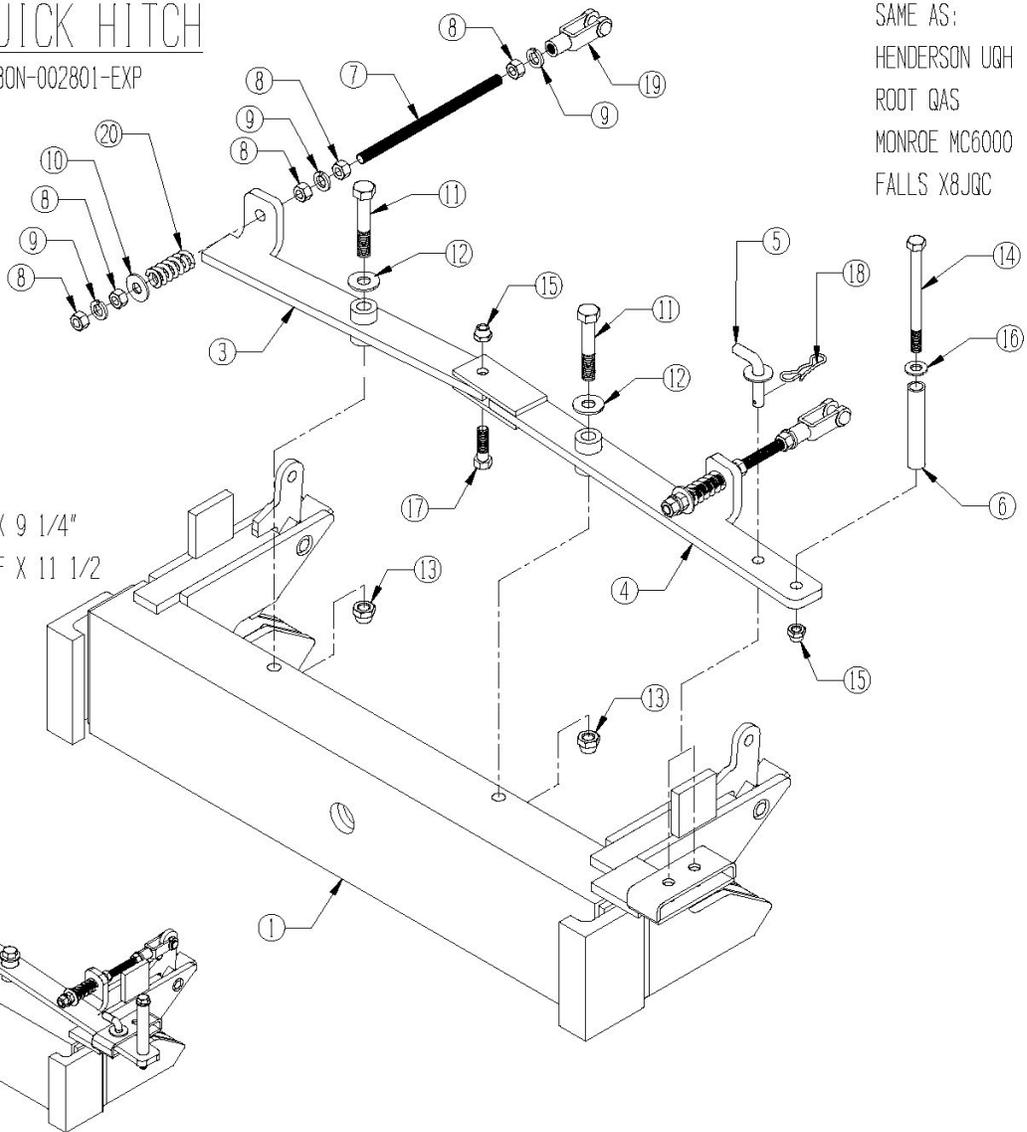
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UNIVERSAL QUICK HITCH

REV 103113

BON-002801-EXP

SAME AS:
 HENDERSON UQH
 ROOT GAS
 MONROE MC6000
 FALLS X8JQC



ALL PARTS INTERCHANGABLE
 WITH ROOT MANUFACTURED GAS

-EXCEPT ITEM 7

NOTE: ITEM 7 = 1/2-20 UNF X 9 1/4"

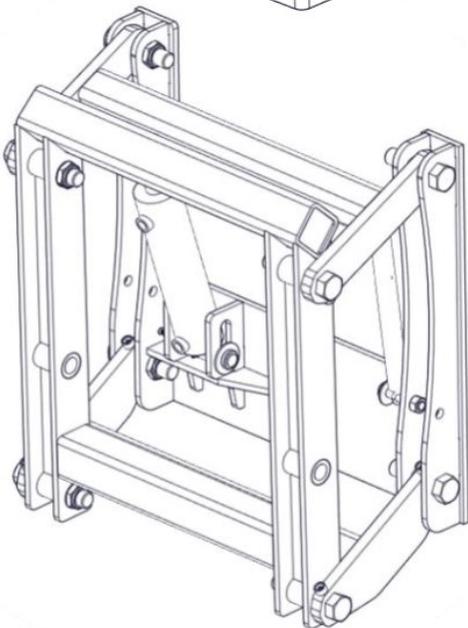
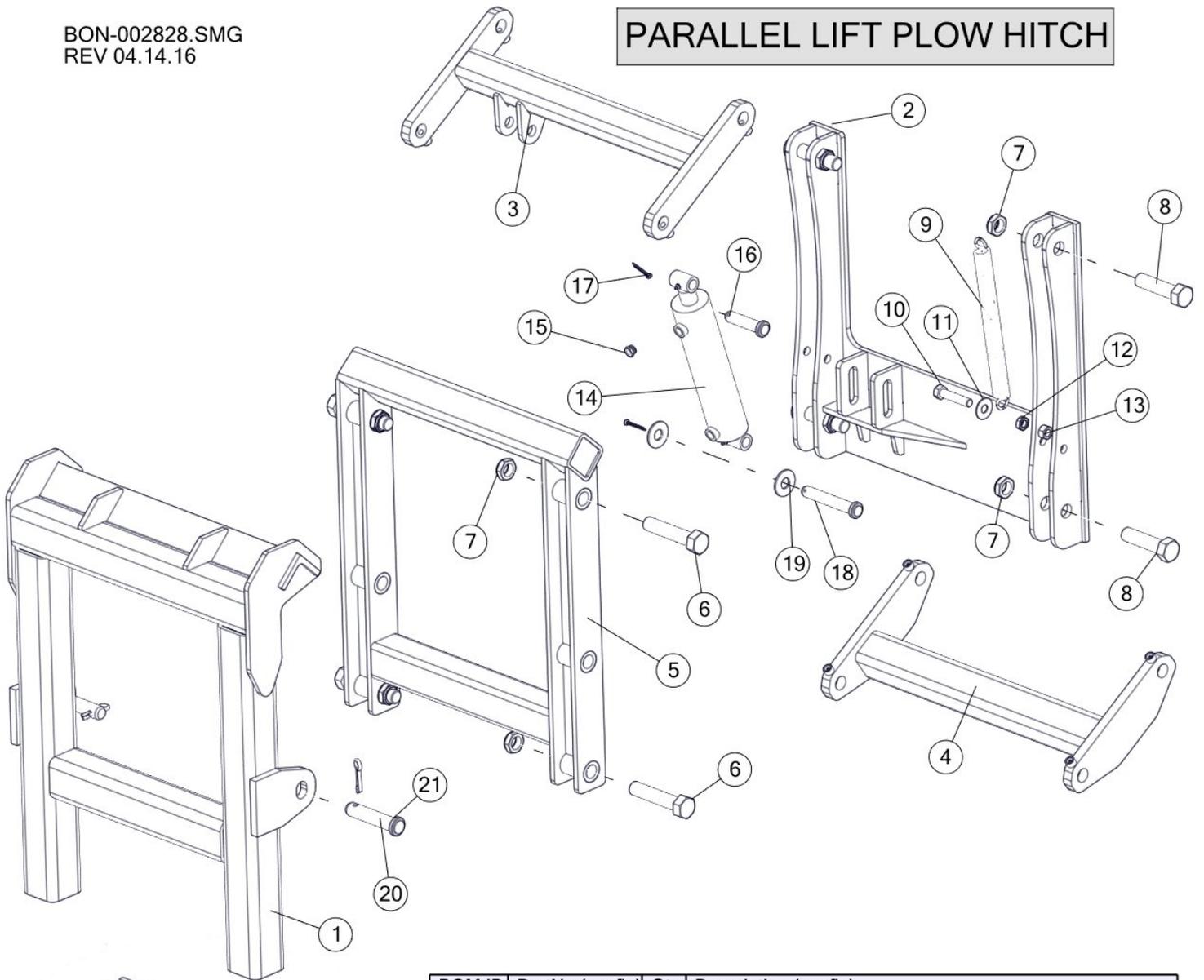
ROOT GAS = 1/2-20 UNF X 11 1/2"

1-21	1	BON-002801	COMPLETE ASSEMBLY				
1	1	BON-002802	UQH MAIN WELDMENT	12	2	BON-000341	5/8 FLATWASHER
3	1	BON-002804	UQH RIGHT LEVER WELDMENT	13	2	BON-000322	5/8-11UNC HEX LOCK NUT
4	1	BON-002803	UQH LEFT LEVER WELDMENT	14	1	BON-000121	1/2-13 UNC X 6 HEX BOLT
5	1	BON-002810	UQH PULL PIN WELDMENT	15	2	BON-000321	1/2-13 UNC HEX LOCK NUT
6	1	BON-003227	CRANK HANDLE PIPE	16	1	BON-000340.5	1/2 SAE FLAT WASHER
7	2	BON-002808	1/2-20 THREADED ROD	17	1	BON-000108	1/2-13 UNC X 1 3/4 HEX BOLT
8	10	BON-000305.1	1/2-20 UNF HEX NUT	18	1	BON-000403	LOCKING HAIR PIN
9	6	BON-000354	1/2 LOCK WASHER	19	2	BON-002809	YOKE
10	2	BON-000340	1/2 WIDE FLATWASHER	20	2	BON-002807	SPRING
11	2	BON-000159	5/8-11 UNC X 3 1/2 HEX BOLT	8-10,19-20	2	BON-002806	SPRING ROD ASSEMBLY
ITEM	QTY	PART #	DESCRIPTION	ITEM	QTY	PART #	DESCRIPTION



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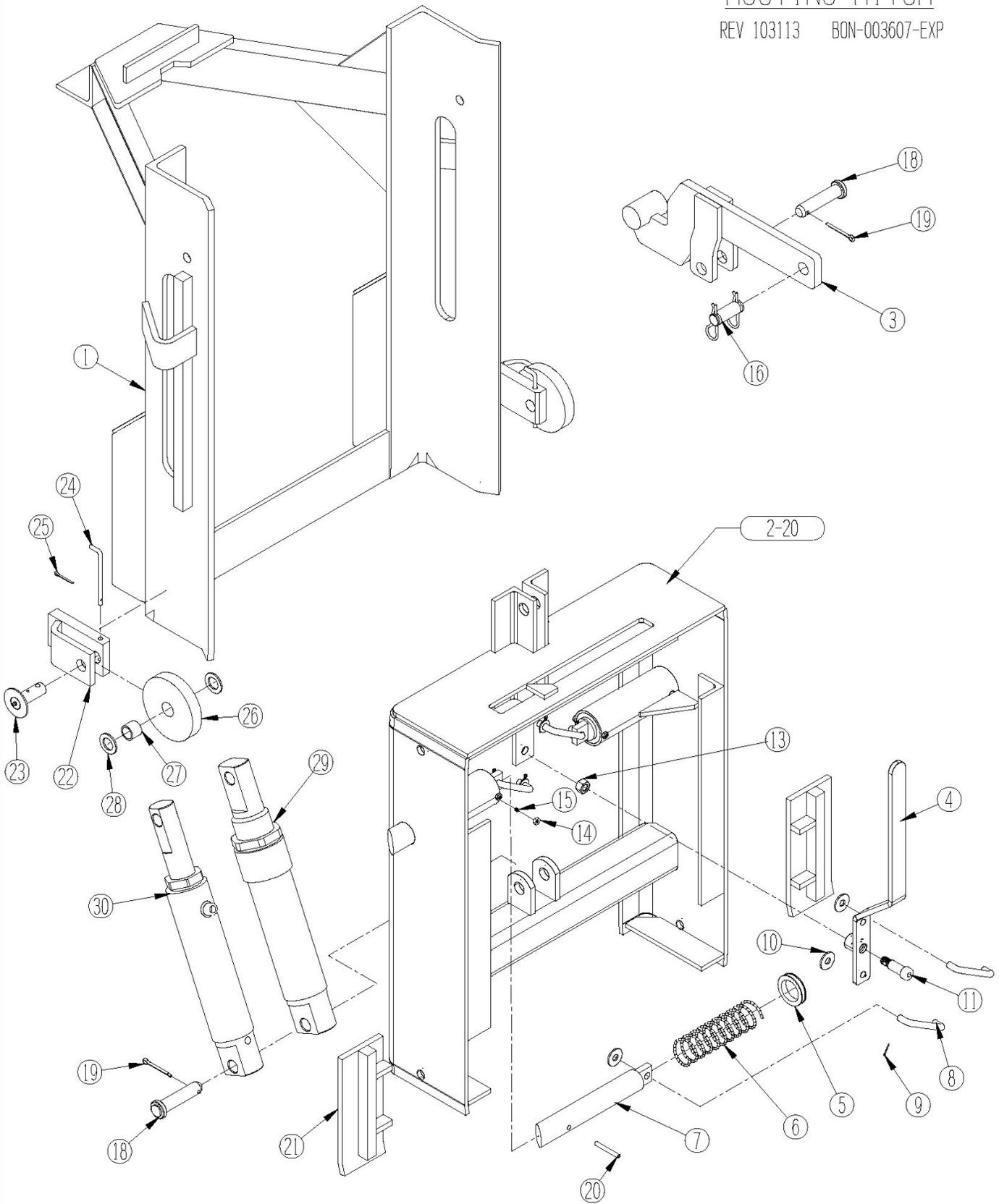
PARALLEL LIFT PLOW HITCH



BOM ID	PartNo (config)	Qty	Description (config)
1	BON-002830	1	PARALLEL LIFT HITCH PLOW SECTION
2	BON-002834	1	TRUCK MTG. WELDMENT
3	BON-002832	1	UPPER LINKAGE ARM
4	BON-002833	1	LOWER LINKAGE WELDMENT
5	BON-002837	1	HOOK UP WELDMENT
6	BON-000255	4	1-1/4-7 X 6" BOLT
7	BON-000333.5	8	NYLON INSERT LOCKNUT, 1-1/4-7 UNC
8	BON-000253	4	1-1/4-7 X 5" BOLT
9	BON-002838	1	EXTENSION SPRING, 1-1/2" OD
10	BON-000188	1	3/4-10 X 3-1/2" BOLT
11	BON-000342	1	FLAT WASHER, 3/4
12	BON-000333.3	1	HEX JAM NUT, 3/4"-10 TPI
13	BON-000308	1	HEX NUT, 3/4"-10 TPI
14	BON-002829	1	HYD CYLINDER, 3X10 D.A.
15	PMC-PMBFH3	1	CYLINDER BREATHER, 1/2" NPT
16	BON-000991	1	PIN, 1" DIA. x 4-1/4" LG 3-5/8" WORKING LENGTH
17	BON-000385	1	COTTER PIN 1/4 X 2
18	BON-000994	1	PIN, 1"x6-3/8" LG 5-3/4" WORKING LENGTH
19	BON-000345	2	FLAT WASHER, 1
20	BON-000292.3	1	PIN, 1-1/4X5-3/4 BUTTON HEAD 4-3/4" WORKING LENGTH
21	BON-000292.1	1	GUEST PIN FOR 1/2" HOLE ALSO CALLED A CLINCH PIN

HUSTING HITCH

REV 103113 BON-003607-EXP



DIXON, ILLINOIS
PHONE: 800-851-9664

HUSTING HITCH

ITEM #	PART #	QTY.	DESCRIPTION
1	BON-003607	1	29" PLOW SECTION
	BON-003608	1	34" PLOW SECTION
2-20	BON-003609	1	29" TRUCK SECTION
	BON-003610	1	34" TRUCK SECTION
3	KAS-000925	1	LIFT ARM
4	BON-003605	1	RELEASE HANDLE, 29" & 34", 2013 & NEWER "CLOSED TOP" HITCHES
	KAS-000922	1	29" RELEASE HANDLE 2012 & OLDER "OPEN TOP" HITCHES
	KAS-000979	1	34" RELEASE HANDLE 2012 & OLDER "OPEN TOP" HITCHES
5	KAS-000939	2	SPRING RETAINER
6	KAS-000943	2	SPRING
7	KAS-000930	2	LATCH PIN
8	KAS-000942	2	29" CONNECTOR LINK
	KAS-000981	2	34" CONNECTOR LINK
9	BON-000369	4	3/32"X1-1/2 COTTER PIN
10	BON-000340.5	4	1/2" FLAT WASHER
11	KAS-000933.1	1	STEP BOLT
13	BON-000307	1	5/8" HEX NUT
14	KAS-000723	4	5/16" FINE THREAD HEX JAM NUT
15	KAS-000958	4	5/16" X 1/2" FINE THREAD SET SCREW
16	PMC-190400005	1	LIFT ARM PIN
18	BON-000991	2	1"X4-1/4 PIN
19	BON-000385	2	1/4"X2 COTTER PIN
20	KAS-000741	2	ROLL PIN

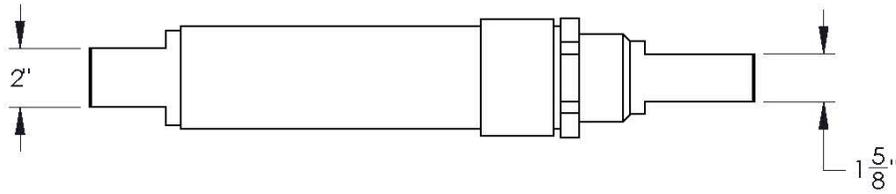
HUSTING ROLLER KIT (OPTIONAL)

21-28	BON-003614	1	ROLLER KIT
21	BON-003616L/R	2	ROLLER PAD, LEFT OR RIGHT
22-28	BON-003614.2	2	ROLLER
22	KAS-000588	2	ROLLER BASE
23	KAS-009587	2	AXLE PIN
24	KAS-002084	2	LOCK PIN
25	BON-000371	2	COTTER PIN
26	KAS-009578	2	WHEEL
27	KAS-006251	2	BUSHING
28	KAS-002536	4	FLAT WASHER

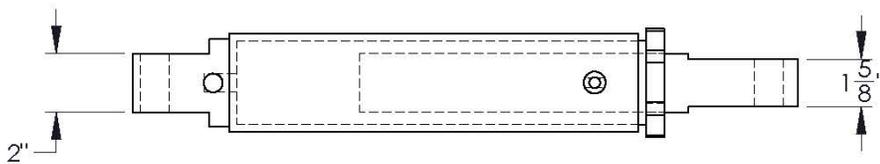
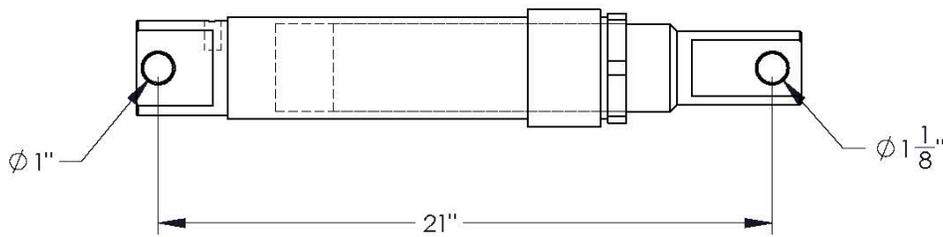
HUSTING LIFT CYLINDERS

29	BON-003604	AR	CYLINDER, 3X10 SA HUSTING RAM
30	BON-003604.5	AR	CYLINDER,3X10RAM,HUSTING,DA FOR A HUSTING PLOW FRAME
30	BON-003604.5SPL	AR	CYLINDER,3X10 RAM, DA WITH LIVE END PORT IN LINE WITH PIN EYE AND DEAD END PORT 90 DEGREE TO PIN EYE
31	BON-003606NH	AR	CYLINDER,4X10 RAM, DA NITRIDED WITH LIVE END PORT IN LINE WITH PIN EYE AND DEAD END PORT 90 DEGREE TO PIN EYE

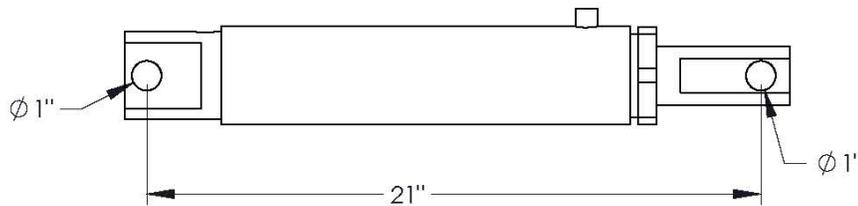
3 X 10 HUSTING LIFT CYLINDER



BON-003604 SINGLE ACTING



BON-003604.5 DOUBLE ACTING

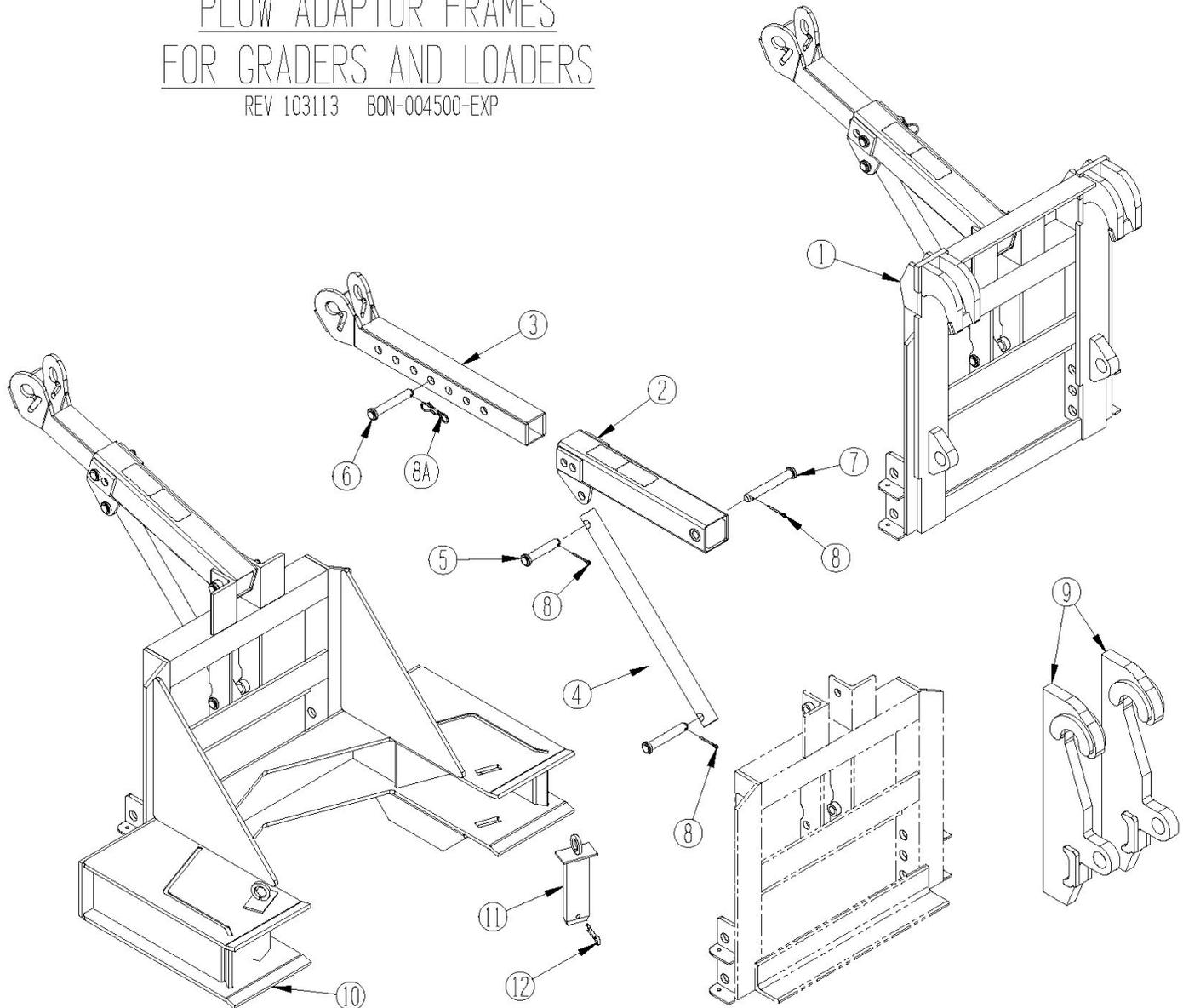


PART NUMBER	PACKING	WIPER (SOLD SEPARATELY)	BORE (IN)	ROD DIAM (IN)	STROKE (IN)	RETRACTED LENGTH (IN)	PORT SIZE (IN)	TYPE
BON-003604	MON-05143	MON-0514	3	2.5	10	21	3/8	NPT
BON-003604.5	DA-300-200-RPK	N/A	3	2	6	21	3/8	NPT

03

PLOW ADAPTOR FRAMES FOR GRADERS AND LOADERS

REV 103113 BON-004500-EXP



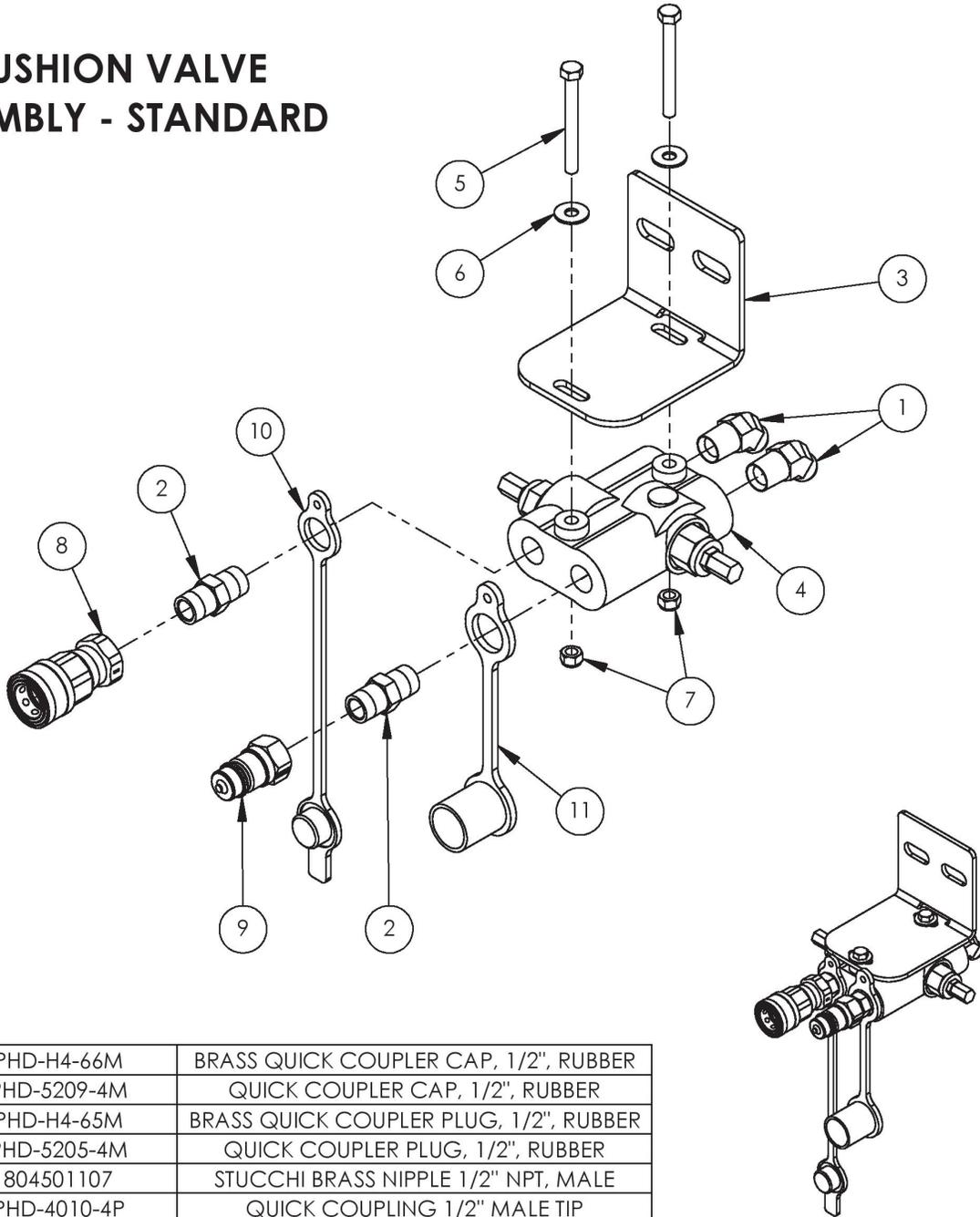
1	AR	BON-004500	ADAPTOR ASSEMBLY, BALDERSON	9	BON-003572	BALDERSON ADAPTOR HOOKS
	AR	BON-004501	ADAPTOR ASSEMBLY, JRB-416		JRB-90W00003	JRB HOOKS - FITS JD 544, 624
	AR	BON-004502	ADAPTOR ASSEMBLY, JRB-418		JRB-418	JRB HOOKS - FITS JD 644
2	1	BON-003202.4	OUTER LIFT ARM	10	CAT-103-8613	CAT IT38, IT62G, 950 CUSTOM
3	1	BON-003202.2	INNER LIFT ARM		CAT-113-2677	CAT IT12-IT28G, 924G, 416B-420D, 430D-446B
4	1	BON-003158.6-10	STIFF BAR		CAT-121-8908	CAT 916, 918, 924, 926-928, 938
5	1	BON-000993	PIN, 1" X 5-1/4" W/L		CAT-243-4596	CAT 950B-962G, 966D-972G
6	2	BON-000994	PIN, 1" X 6-3/8" W/L		10	BON-003158.6
7	1	BON-000995	PIN, 1" X 7-1/2" W/L	10A	BON-003158.5	SCARIFIER SOCKET ONLY
8	3	BON-000385	1/4X2 COTTER PIN	11	BON-003185	SCARIFER MOUNTING PIN
8A	1	BON-000404	LOCKING HAIR PIN	12	BON-000292.1	GUEST PIN
ITEM	QTY	PART #	DESCRIPTION	ITEM	PART #	DESCRIPTION



DIXON, ILLINOIS
PHONE: 800-851-9664

FILE NAME	CUSHION VALVE ASSEMBLY
DWG NAME	STANDARD

CUSHION VALVE ASSEMBLY - STANDARD



11	1	PHD-H4-66M	BRASS QUICK COUPLER CAP, 1/2", RUBBER
		PHD-5209-4M	QUICK COUPLER CAP, 1/2", RUBBER
10	1	PHD-H4-65M	BRASS QUICK COUPLER PLUG, 1/2", RUBBER
		PHD-5205-4M	QUICK COUPLER PLUG, 1/2", RUBBER
9	1	804501107	STUCCHI BRASS NIPPLE 1/2" NPT, MALE
		PHD-4010-4P	QUICK COUPLING 1/2" MALE TIP
8	1	804501106	STUCCHI BRASS COUPLER 1/2" NPT, FEMALE
		PHD-4050-4P	QUICK COUPLING 1/2" FEMALE BODY
7	2	BON-000320	5/16"-18TPI HEX LOCK NUT NYLON INSERT
6	2	BON-000337	FLATWASHER, 5/16" U.S.S. ZP
5	2	BON-000038	5/16"-18TPI X 3" LONG GR.8 GRADE 8 BOLT
4	1	DRV-4HH	CUSHION VALVE SET @ 1800 PSI COUNTER
3	1	BON-002729SS	CUSHION VALVE BRACKET SS
BELOW PARTS ARE INCLUDED IN KIT: HFK-1023, HFK-1025, AND HFK-1028			
2	2	24SA 08	MALE PIPE TO MALE PIPE 1/2NPT TO 1/2NPT
1	2	2503-08-08F	MALE ELBOW, 37° TO NPT 45° 3/4"-16 X 1/2
ITEM	QTY	PART NUMBER	DESCRIPTION

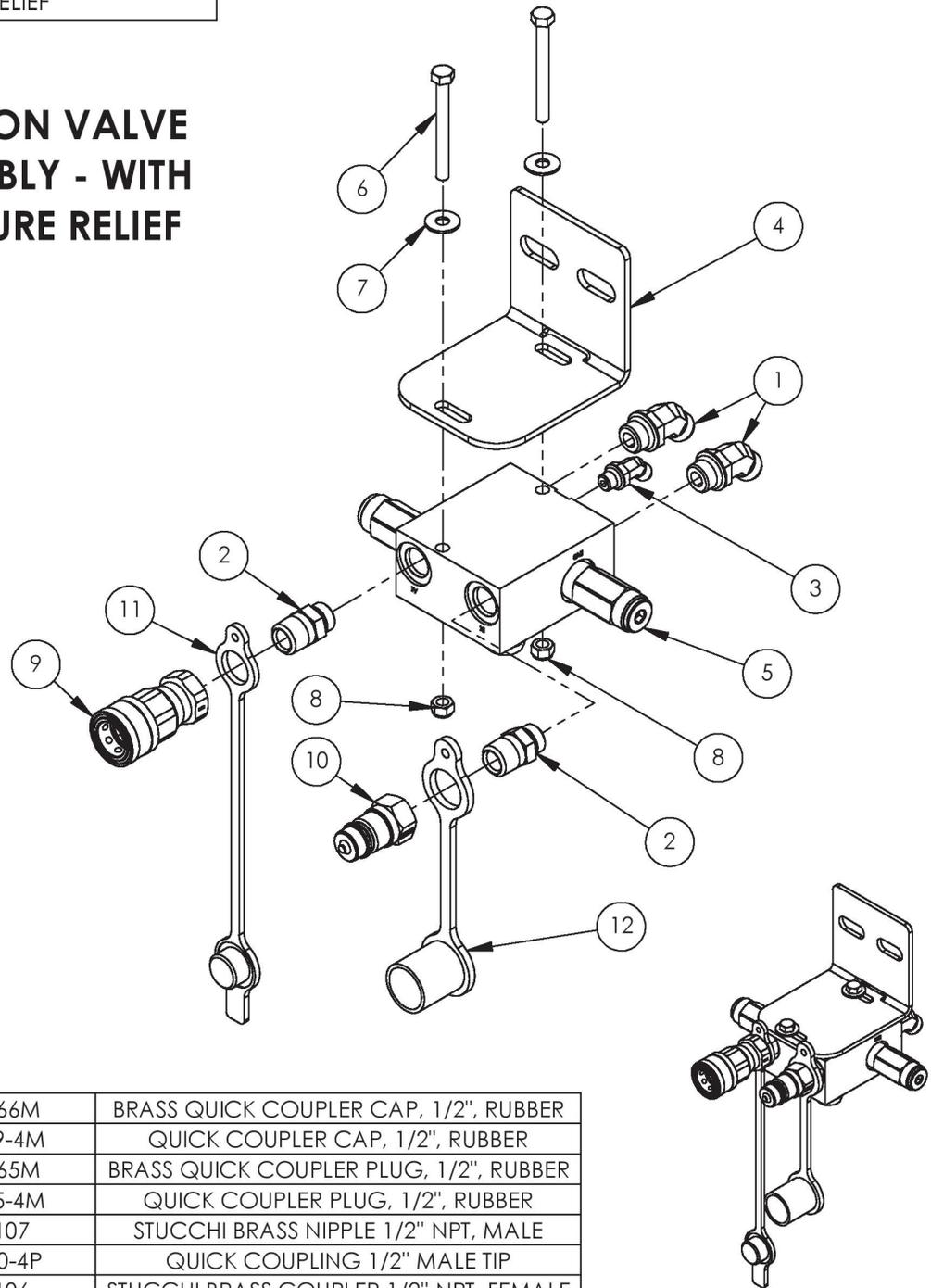
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FILE NAME	CUSHION VALVE ASSEMBLY
DWG NAME	W PRESSURE RELIEF

CUSHION VALVE ASSEMBLY - WITH PRESSURE RELIEF



12	1	PHD-H4-66M	BRASS QUICK COUPLER CAP, 1/2", RUBBER
		PHD-5209-4M	QUICK COUPLER CAP, 1/2", RUBBER
11	1	PHD-H4-65M	BRASS QUICK COUPLER PLUG, 1/2", RUBBER
		PHD-5205-4M	QUICK COUPLER PLUG, 1/2", RUBBER
10	1	804501107	STUCCHI BRASS NIPPLE 1/2" NPT, MALE
		PHD-4010-4P	QUICK COUPLING 1/2" MALE TIP
9	1	804501106	STUCCHI BRASS COUPLER 1/2" NPT, FEMALE
		PHD-4050-4P	QUICK COUPLING 1/2" FEMALE BODY
8	2	BON-000320	5/16"-18TPI HEX LOCK NUT NYLON INSERT
7	2	BON-000337	FLATWASHER, 5/16" U.S.S. ZP
6	2	BON-000038	5/16"-18TPI X 3" LONG GR.8 GRADE 8 BOLT
5	1	FOR-1095633	CUSHION VALVE WITH PRESSURE RELEASE
4	1	BON-002729SS	CUSHION VALVE BRACKET SS
BELOW PARTS ARE INCLUDED IN KIT: HFK-1024, HFK-1026, AND HFK-1027			
3	1	6802-04-04	7/16-20 MALE 37° TO 7/16-20 MALE ORB
2	2	722FSO 08X08	1/2 MALE NPT TO 3/4-16 MALE ORB
1	2	854FSO 08X08	3/4"-16 MALE 37° TO 3/4"-16 MALE ORB
ITEM	QTY	PART NUMBER	DESCRIPTION

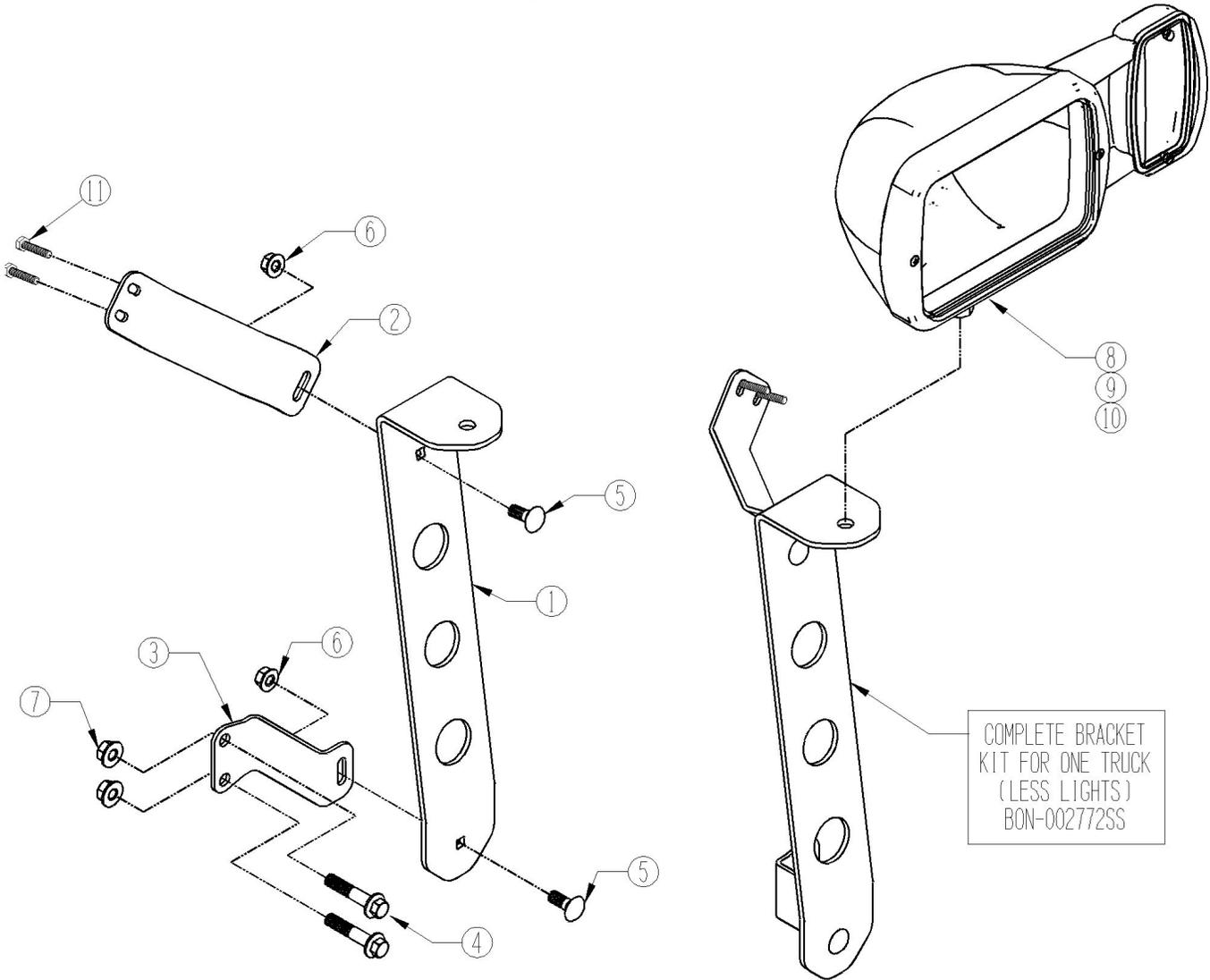
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BONNELL INDUSTRIES INC
TRUCK & ROAD EQUIPMENT

DIXON, ILLINOIS
PHONE: 800-851-9664

PLOW LIGHT BRACKETS FOR INTERNATIONAL WORKSTAR

REV 080113 BON-002772-EXP-REV1

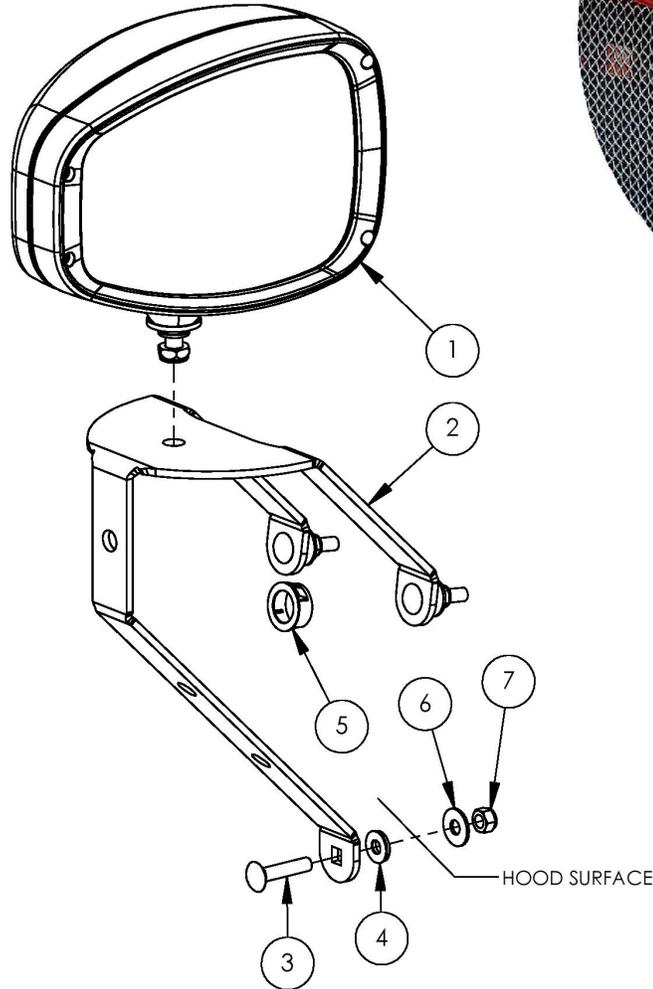


				6	4	BV2-001651	5/16"-18TPI HEX LOCK NUT
1	2	BON-002772-1SS	LIGHT BRACKET, STAINLESS STEEL	7	4	BON-002773	M10 X 1.5 HEX FLANGE NUT
2	2	BON-002772-2	TOP MOUNTING BRACKET	8	2	ASD-779-09132	PLOW LIGHT SET, HALOGEN, PAIR
3	2	BON-002772-3	BOTTOM MOUNTING BRACKET	9	2	ASD-779-09132L	PLOW LIGHT SET, HALOGEN, LEFT UNIT ONLY
4	4	M10X1.5X50 FH	METRIC FLANGE HEAD SCREW	10	1	ASD-779-09132R	PLOW LIGHT SET, HALOGEN, RIGHT UNIT ONLY
5	4	BON-000277.5SS	5/16" X 1" CARRIAGE BOLT SS	11	4	6X1X30MM	M6 X 1 X 30 HEX BOLT
ITEM	QTY	PART #	DESCRIPTION	ITEM	QTY	PART #	DESCRIPTION



DIXON, ILLINOIS
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FILE NAME	HOOD MOUNTED PLOW LIGHTS
DWG NAME	BOM



1	1	ABL-3830-0526	PLOW LIGHT, HALOGEN, LEFT UNIT ONLY
	1	ABL-3830-0525	PLOW LIGHT, HALOGEN, RIGHT UNIT ONLY
	1	ABL-3830-0575	PLOW LIGHT SET, HALOGEN, RIGHT & LEFT
	1	ABL-3830-0002	PLOW LIGHT, LED, LEFT UNIT ONLY
	1	ABL-3830-0001	PLOW LIGHT, LED, RIGHT UNIT ONLY
	1	ABL-3830-0080	PLOW LIGHT SET, LED, RIGHT & LEFT

ITEMS 3-7 ARE ALSO INCLUDED IN BOLT KIT: BK-1056SS

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BELOW PARTS ARE INCLUDED IN KIT: BON-002841SS

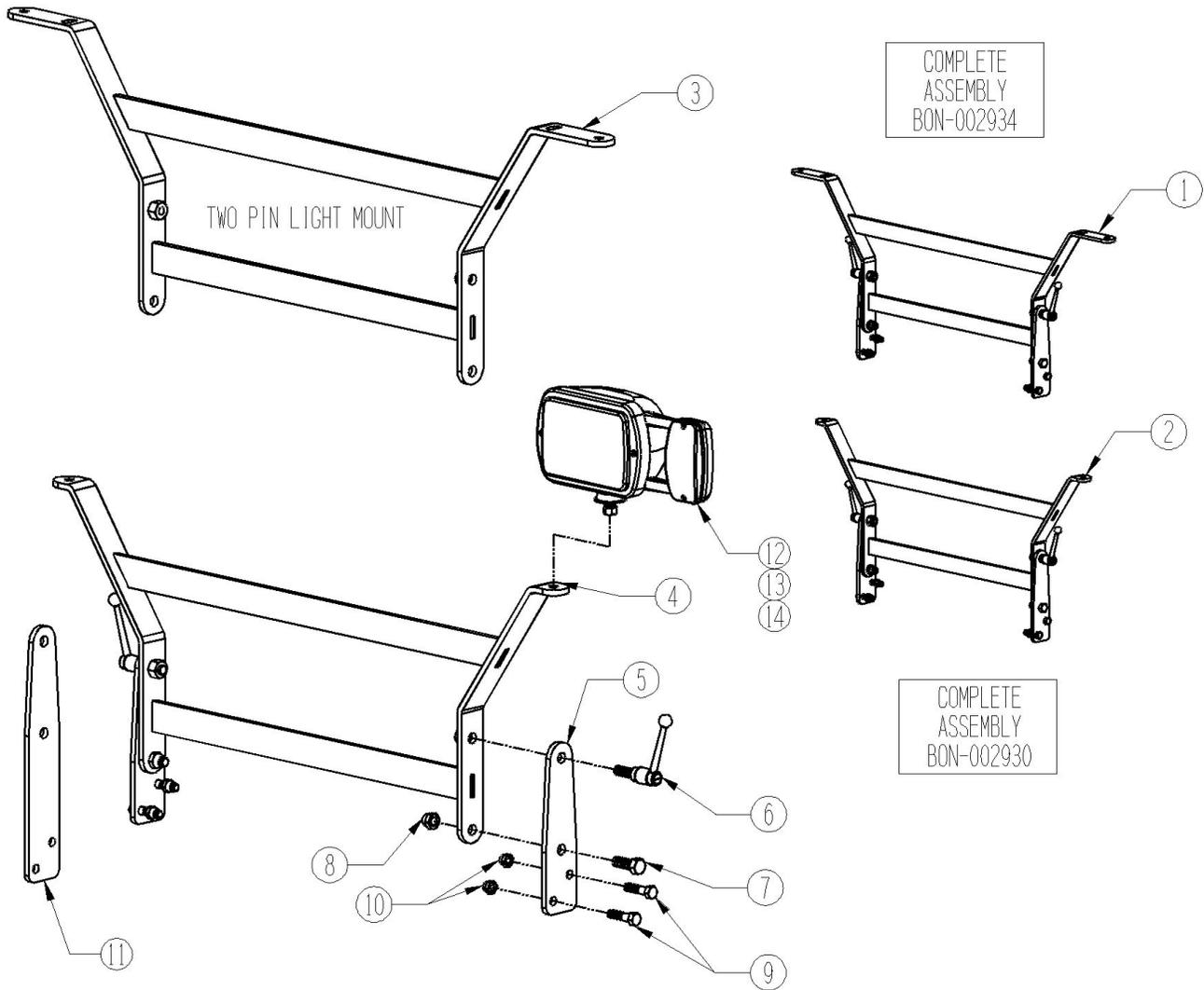
2	1	LIGHT BRACKET	PEDESTAL LIGHT BRACKET, 8"
3	3	BON-000277.7SS	5/16"-18TPI X 1-1/2" CARRIAGE BOLT SS
4	3	BON-008939	5/16 BONDED FLATWASHER
5	1	WAY-24105	SNAP BUSHING 3/4" I.D.
6	3	BON-000337SS	FLAT WASHER, 5/16, SS
7	3	BON-000320SS	5/16"-18TPI HEX LOCK NUT NYLON INSERT,SS
ITEM	QTY	PART NUMBER	DESCRIPTION



DIXON, ILLINOIS
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QX TILTING LIGHT BRACKET ASSEMBLIES

033109 BON-002930-EXP



1	AR	BON-002934	QX TILTING LIGHT BRACKET ASS'Y, FOR WESTERN STYLE LIGHTS				
2	AR	BON-002930	QX TILTING LIGHT BRACKET ASS'Y				
3	AR	BON-002935	QX TILTING LIGHT BRACKET WLDMT				
4	AR	BON-002933	QX TILTING LIGHT BRACKET WLDMT				
5	2	BON-002931	QX TILTING LIGHT BRACKET EAR				
6	2	BON-002932	QX TILTING LIGHT BRKT HANDLE				
7	2	BON-000152	5/8''-11TPI X 1 3/4'' LONG GR.8 BOLT	11	AR	BON-002931T	QX TILTING LIGHT BRACKET EAR, TALL
8	2	BON-000322	5/8''-11TPI HEX LOCK NUT NYLON INSERT	12	AR	ASD-779-09132	PLOW LIGHT SET, HALOGEN, PAIR
9	4	BON-000109	1/2''-13TPI X 2'' LONG GR.8 BOLT	13	AR	ASD-779-09132L	PLOW LIGHT SET, HALOGEN, LEFT UNIT ONLY
10	4	BON-000321	1/2''-13TPI HEX LOCK NUT NYLON INSERT	14	AR	ASD-779-09132R	PLOW LIGHT SET, HALOGEN, RIGHT UNIT ONLY
ITEM	QTY	PART #	DESCRIPTION	ITEM	QTY	PART #	DESCRIPTION



DIXON, ILLINOIS
PHONE: 800-851-9664

Bonnell Industries, Inc. warrants to the original purchaser that if any part of the product proves to be defective in workmanship or material within one year of the date of original installation and is returned to us freight prepaid within 30 days after such defect is discovered and notification thereof is provided Bonnell, we will either replace or repair the defective part (our option). This warranty does not apply to damage resulting from neglect, misuse, accident or improper installation or maintenance. Charges for field service, labor, or other expenses not previously authorized and approved in writing by Bonnell Industries, Inc. will not be accepted. This warranty is exclusive and in lieu of all other warranties whether expressed or implied. Bonnell Industries, Inc. neither assumes nor authorizes anyone to assume for it any other obligation or liability in connection with this warranty, and will not be liable for consequential damages. This warranty applies only to products made and/or supplied by Bonnell Industries, Inc. and does not apply to other products not made or supplied by us and to which our products may be attached, such as trucks. We accept no responsibility for damages to such other products, even if our product is alleged to have contributed to the damage of the other product.

Hydraulic, electrical, or other components furnished by other manufacturers and used with our products are warranted by that manufacturer and not by Bonnell Industries, Inc. the manufacturer's own warranty will apply to these parts. Hydraulic or electrical components are not to be disassembled without the express written permission of Bonnell Industries, Inc.

All defective parts returned from an end user must include the unit model, serial number, date installed, and dealer from whom purchased.

Bonnell Industries, Inc. reserves the right to make changes or improvements to its products without incurring any liability or obligation and without being required to make corresponding changes or improvements to products manufactured or sold prior to those changes or improvements.

The Bonnell Industries, Inc. Warranty Policy is subject to change without notice.

Product Information

When ordering parts, please refer to the information below.

INSTALLATION DATE:

Certificate of Origin

This product was manufactured at Bonnell Industries, Inc.,
located at 1385 Franklin Grove Rd.,
in the city of Dixon, Illinois, U.S.A.

MADE IN THE USA 