

Berry Plumbing & Equipment

**Technical Manual
#232**

**Berry Head Puller
Model BHP-BPE-10309 (LH)
Model BHP-BPE-10310 (RH)**



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Model Number and Serial Number located on Back Cover

FOREWORD

Thank you for purchasing Berry's **Head Puller**. Berry Plumbing & Equipment has made every effort to cover all aspects of maintenance, adjustments and operational procedures required in order to receive the optimum yield and performance from the **Head Puller**. Before beginning any procedure on or with this equipment, please read carefully this entire manual to avoid any injury or damage to personnel and/or machine components.

The purpose of this manual, aside from operation, maintenance and repair, is to promote safety through the use of correct practices and procedures. **READ, UNDERSTAND AND FOLLOW** the safety and operating instructions contained in this manual before operating machine.

The specifications as stated herein are the most current at the time of publication. However, consistent with our standard of continual product improvement, we reserve the right to change the design without notice or obligation to modify any equipment previously sold or delivered.

Within the following text and illustrations, certain "NOTES", "CAUTIONS" and "WARNINGS" may be found. Pay close attention to these when performing any particular procedure.

"NOTE" - Instructions or reminders that can help in making a given procedure or task easier and/or faster as well as safer.

"CAUTION" - Refers to situations to avoid in order to prevent possible injury or component/machine damage.

"WARNING" - Pay very close attention to all warnings, as these are vital instructions for certain procedures to avoid serious personal injury and/or death to the operator or bystanders.

NOTE!

If this machine is properly installed in accordance with local, state and federal regulations, used in concert with the manufacturers design intent, operated in a safe and responsible manner and, also, cleaned and sanitized before each usage - according to instruction and SOP (Standard Operating Procedure) - it meets the criteria for delivery of an unadulterated product.

In addition to the above, always make certain that this machine is kept certifiably inspected for cleanliness and sanitation before each usage, in order to prevent the delivery of micro biologically - contaminated product.

Section I: SAFETY PRECAUTIONS

Berry Plumbing & Equipment designs its equipment for maximum personal safety. However, as with any operation of machinery, certain safety precautions should be observed. Your machine may have cutting edges or moving parts, which may be dangerous and can cause serious injuries. The following list of safety precautions have been developed to help production, clean – up and maintenance personnel work with this machine safely. Production or clean – up personnel should NEVER perform any maintenance on a machine. Instead, they should call qualified maintenance personnel when they have a problem with a machine.

- **READ, UNDERSTAND, AND PRACTICE** the safety precautions found in this manual.
- **KNOW** the limitations and hazards associated with this machine.
- **HAND SAFETY: KEEP HANDS OUTSIDE THE MACHINE WHILE IN OPERATION.**
- **NEVER REACH INTO THE MACHINE WHILE IT IS IN OPERATION.**
- **DO NOT PUT HANDS INTO INFED AREAS AT ANY TIME DURING OPERATION.**
- **EYE SAFETY:** Wear an approved safety shield, goggles, or glasses to protect the eyes when cleaning or performing maintenance on this machine.
- **DO NOT** stand on, climb on, or lean over the machine while in operation.
- **“LOCK OUT – TAG OUT”:** When performing maintenance on a particular machine, **MAKE SURE** its local control switch is “**OFF**”, the operational/electrical controls in the central control room have been turned “**OFF**” and “**LOCKED OUT**” and a “**DO NOT OPERATE**” tag is place on the machine.
- **PERSONAL PROTECTION:** Before performing any maintenance on the machine, remove tie, rings, watch, and any other jewelry and roll sleeves above the elbows. Remove any loose clothing and confine long hair. Protective type footwear should be worn. Because of the operational and sanitary requirements, the machine has several **AREAS WHERE INJURIES COULD OCCUR** to someone getting to close or trying to make adjustments or repairs while the machine is in operation. **MAKE SURE THAT ALL PERSONS WORKING WITH OR NEAR THE MACHINE UNDERSTAND THE POTENTIAL DANGER.**
- **KEEP** all access covers in place when power is applied. **NEVER** attempt operational adjustments, cleaning, or removal of blockages while machine is in operation.
- **CARELESS ACTS:** Give the work you are doing your undivided attention. Looking around, carrying on a conversation and “horseplay” are careless acts that can result in serious injury.

Section I: SAFETY PRECAUTIONS

- **ELECTRICAL CONNECTIONS:** Have all wiring done by a licensed electrician, in accordance with national and local electrical codes. Provide one or more emergency cut – off switches, on or near the machine, in places which are easily accessible in the event of an accident.
- **MISUSE:** Do not use the machine for other than its intended use. If used for other purposes, Berry Plumbing & Equipment **DISCLAIMS ANY WARRANTY**, which might otherwise have been applied in accordance with Berry Plumbing & Equipment's standard limited warranty, and **HOLDS ITSELF BLAMELESS FOR ANY INJURY WHICH MIGHT BE A RESULT FROM THAT USE**.
- **REPLACEMENT PARTS:** Use only Berry Plumbing & Equipment or factory authorized replacement parts and accessories; otherwise, the machine warranty will be null and void.
- **REFER** all operation, maintenance, or service to qualified personnel.

DISCLAIMER

Berry Plumbing & Equipment shall bear no liability for any injury or damage resulting from repairs, modifications, or adjustments attempted outside the scope of this manual, our factory or written authorization; including installation by other than Berry Plumbing & Equipment personnel.

MSDS sheets available upon request.

Section I: SAFETY PRECAUTIONS

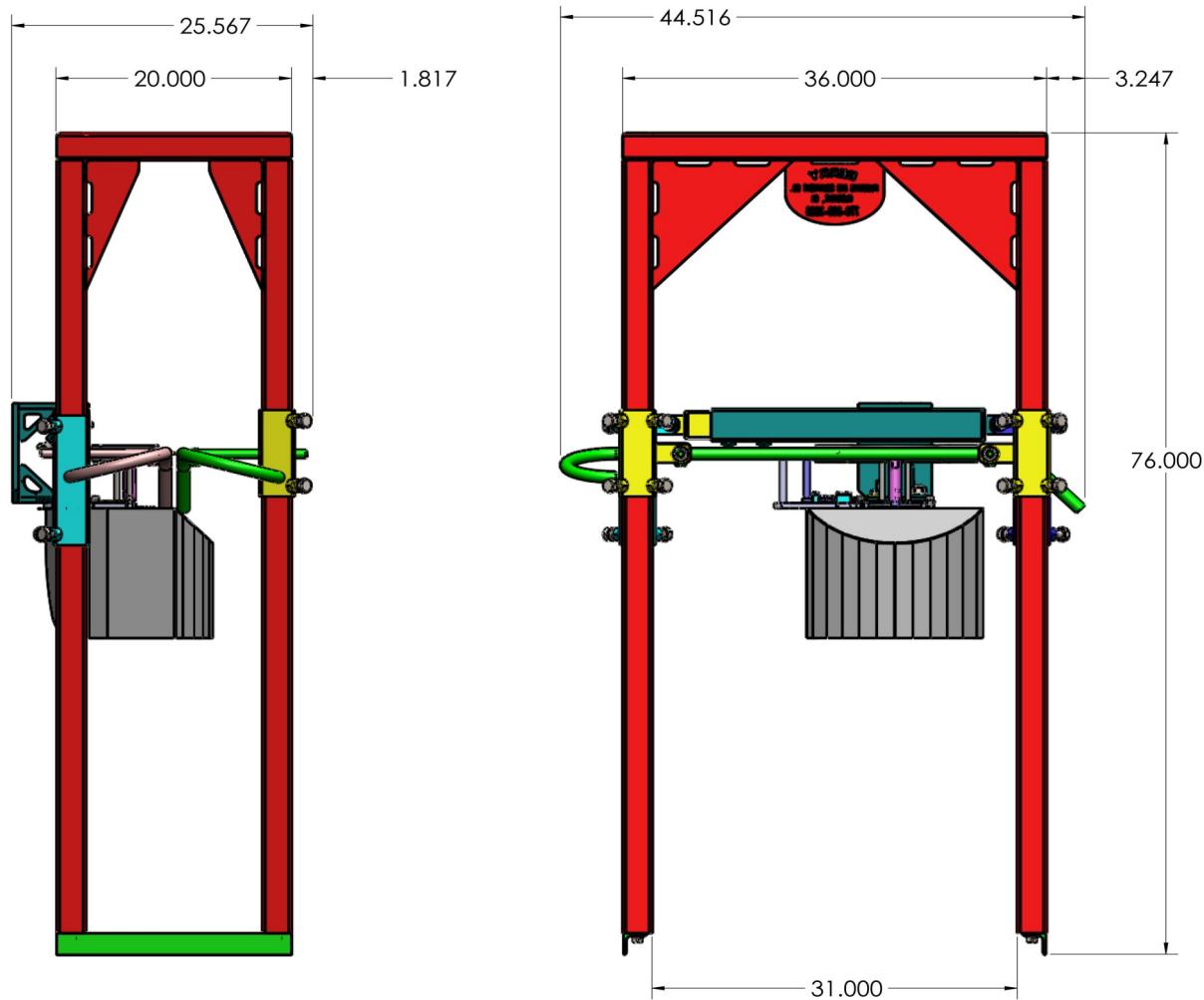
NOTE

The decals illustrated below are typical of the DANGER, WARNING and CAUTION decals found on this machine. READ, UNDERSTAND & FOLLOW all instructions and/or messages found on the decals before operating or servicing machine.



WARNING	ATTENCIÓN	ATTENTION
<ul style="list-style-type: none">▶ KEEP ALL GUARDS AND COVERS IN PLACE.▶ KEEP HANDS AND FEET AWAY FROM ALL MOVING PARTS.▶ LOCK OUT AND TAG OUT BEFORE MAKING ANY ADJUSTMENTS.	<ul style="list-style-type: none">▶ MANTENGA LAS CHAPAS DE PROTECCIÓN EN POSICIÓN.▶ MANTENGA LAS MANOS Y LOS PIES RETIRADO DE LA MAQUINARIA.▶ ASEGURE EL BOTÓN ON/OFF, O EXPLIQUE PORQUE NO FUNCIONA LA MÁQUINA.	<ul style="list-style-type: none">▶ GARDEZ TOUS LES COUVERTURES DE PROTECTION À LA PROPRE PLACE.▶ GARDEZ LES MAINS ET LES PIEDS DE TOUR LE PARTS MOUVANTS.▶ FERMEZ À CLEF LE COMMUTATEUR QU'EXPLIQUEZ SUR LAFICHE POURQUO L'APPAREIL S'EST COUPÉ.

Section II: TECHNICAL SPECIFICATIONS



ELECTRICITY	MOTOR, 1HP, 1140 RPM, 60 HZ, 208-230/460 V
CAPACITY	DEPENDANT UPON LINE SPEED
HEIGHT	APPROX 76"
WIDTH	APPROX 45"
LENGTH	APPROX 25"

Section III: FAMILIARIZATION

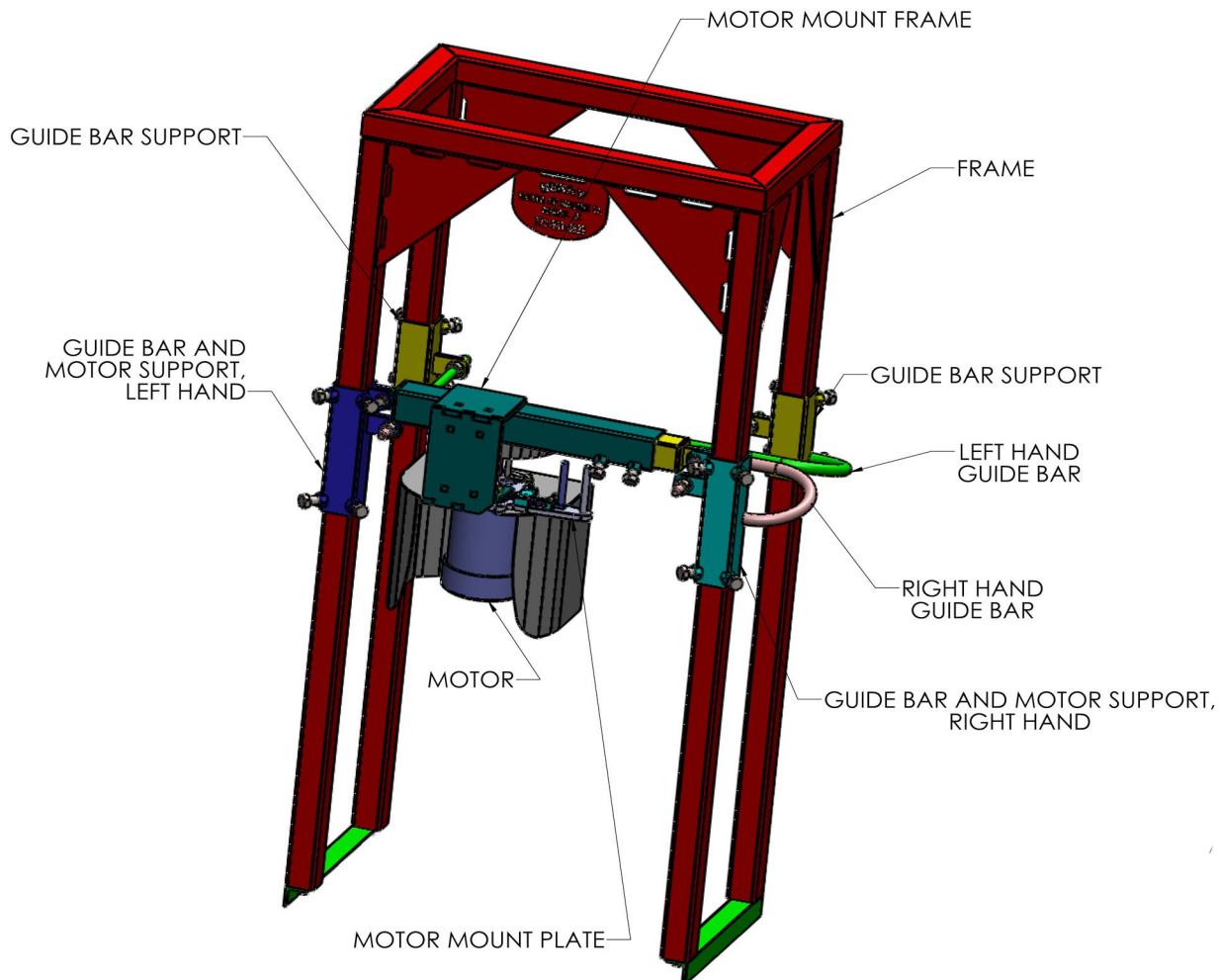


FIGURE 3.1

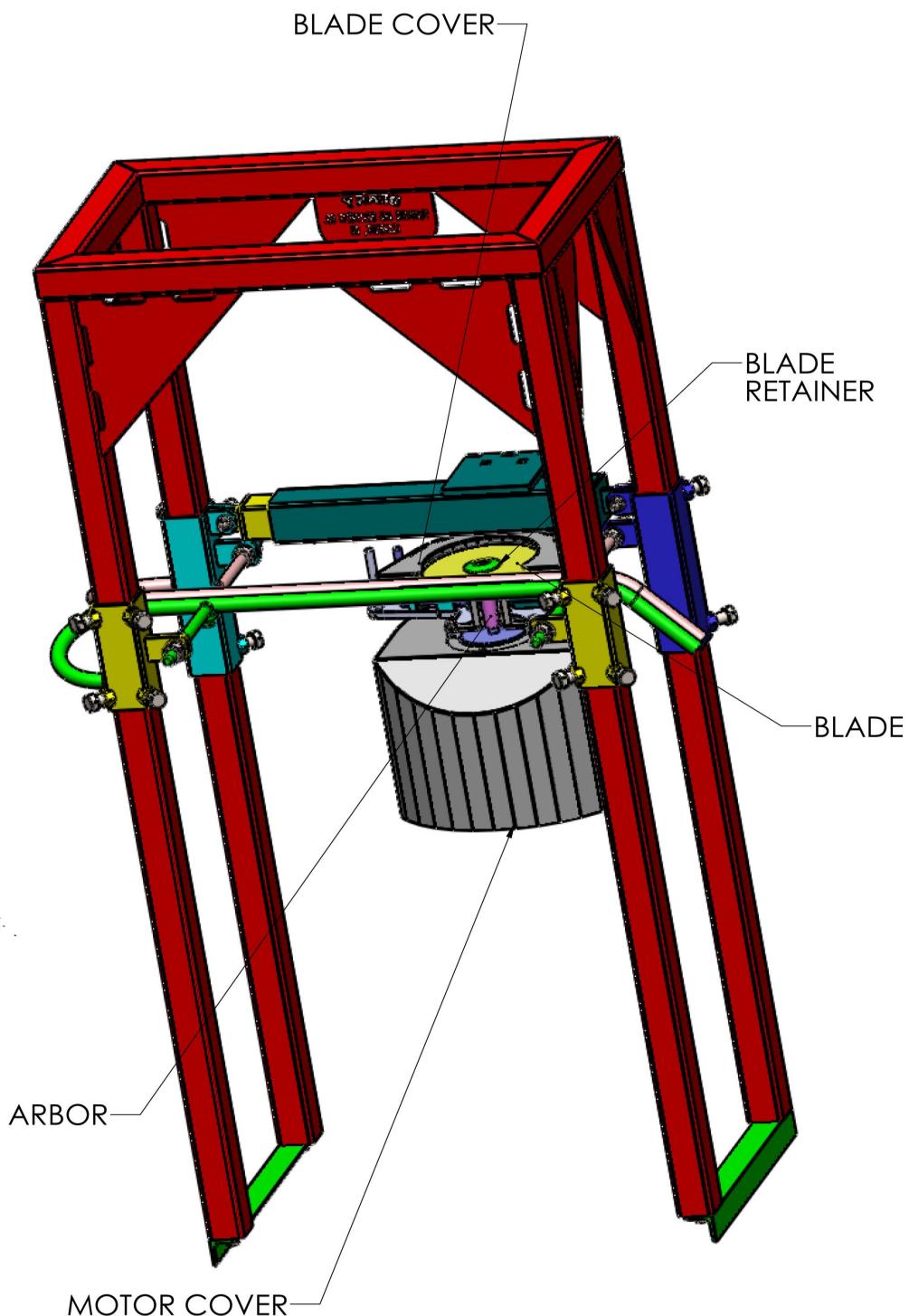
3.1 INTRODUCTION

The Berry Plumbing & Equipment **Head Puller** is constructed entirely of stainless steel for durability and easy cleanup. Automatically fed and electrically powered, the Berry **Head Puller** matches the speed of your Overhead Conveyor. The Berry **Head Puller** is designed to remove the head from your product as it passes through on the line. This product reduces labor costs and increases line efficiency.

3.2 NOMENCLATURE

The nomenclature drawing shown above points out all the major components of the Berry Head Puller. Berry Plumbing and Equipment Company recommends that all operators and maintenance personnel become familiar with the construction and the operation of the machine before it is put into use.

Section III: FAMILIARIZATION



Section IV: INSTALLATION & SET-UP

- 4.1 Determine correct location for installation of the **Model B-HP-LH/RH Head Puller** allowing room for access to all sides of the machine for cleaning and /or maintenance.
- 4.2 Move the **Model B-HP-LH/RH Head Puller** into the desired position by use of a lift device with sufficient capabilities.
Brace machine into place with heavy duty bracing as this is a heavy piece of equipment.
Bracing should be sufficient to prevent any vibration.
- 4.3 Connect 208-230/460 v electrical power to motor.
- 4.4 Check the rotation of the blade for proper rotation. Arbor washer has arrow direction for proper rotation. Right hand arbor is used on a left hand machine.
Left hand arbor is used on a Left hand machine.
- 4.5 Service technician will set up the height and width requirements for the blade and guide bars prior to initial start up.

Section V: OPERATION

- 5.1** As chickens travel the picking line they enter the main guide bar of the Head Puller. The Blade will gently cut the head off .These should be directed to drain for disposal.

Recommendation:

A small amount of water should be applied to the blade to prevent debris build up.

Section VI: PREVENTATIVE MAINTENANCE

6.1 DAILY

- a) Grease all grease fittings using a USDA approved lubrication.
- b) Sharpen blade daily. Recommended between shifts.
- c) Make sure blade cover is in place.
- d) Adjust guide bars as needed to ensure proper alignment for desired cut.
- e) Check all bolts and secure or tighten as necessary on the support arms.

A) The machine should be cleaned thoroughly at the end of each shift. Use only U.S.D.A. approved detergent and high pressure, hot water. Rinse thoroughly.

6.4 CLEANING / WASHDWON

6.2 WEEKLY

- a) Check guide bars to make sure they are not bent out of adjustment.

6.3 MISCELLANEOUS

- a) Replace any warning or caution labels as needed

***Make sure to use Food Grade Anti-Seize lubricant on all bolts.**

Section VII: MAINTENANCE

7.1 BPE-7042 1HP MOTOR REMOVAL / REINSTALLATION

- A) Disconnect Power and Lock-out machine.
- B) Loosen and remove hardware (loc # 33-35), that are holding the motor(loc # 15) to the blade cover (loc# 42).
- C) Remove arbor (loc # 16), by loosing and removing set screw (loc # 40)
- D) Remove motor(loc # 15).
- E) Install new motor (loc # 15).
- F) Reinstall arbor (loc # 16), by installing and tightening set screws (loc # 40)
- G) Replace and tighten hardware (loc# 33-35), that are holding the motor(loc # 1) to the blade cover (loc# 42).
- H) Remove lock-out and reconnect power.

1 MAN @ 1 HOUR

7.2 PBD-8399 BLADE REMOVAL / REINSTALITION

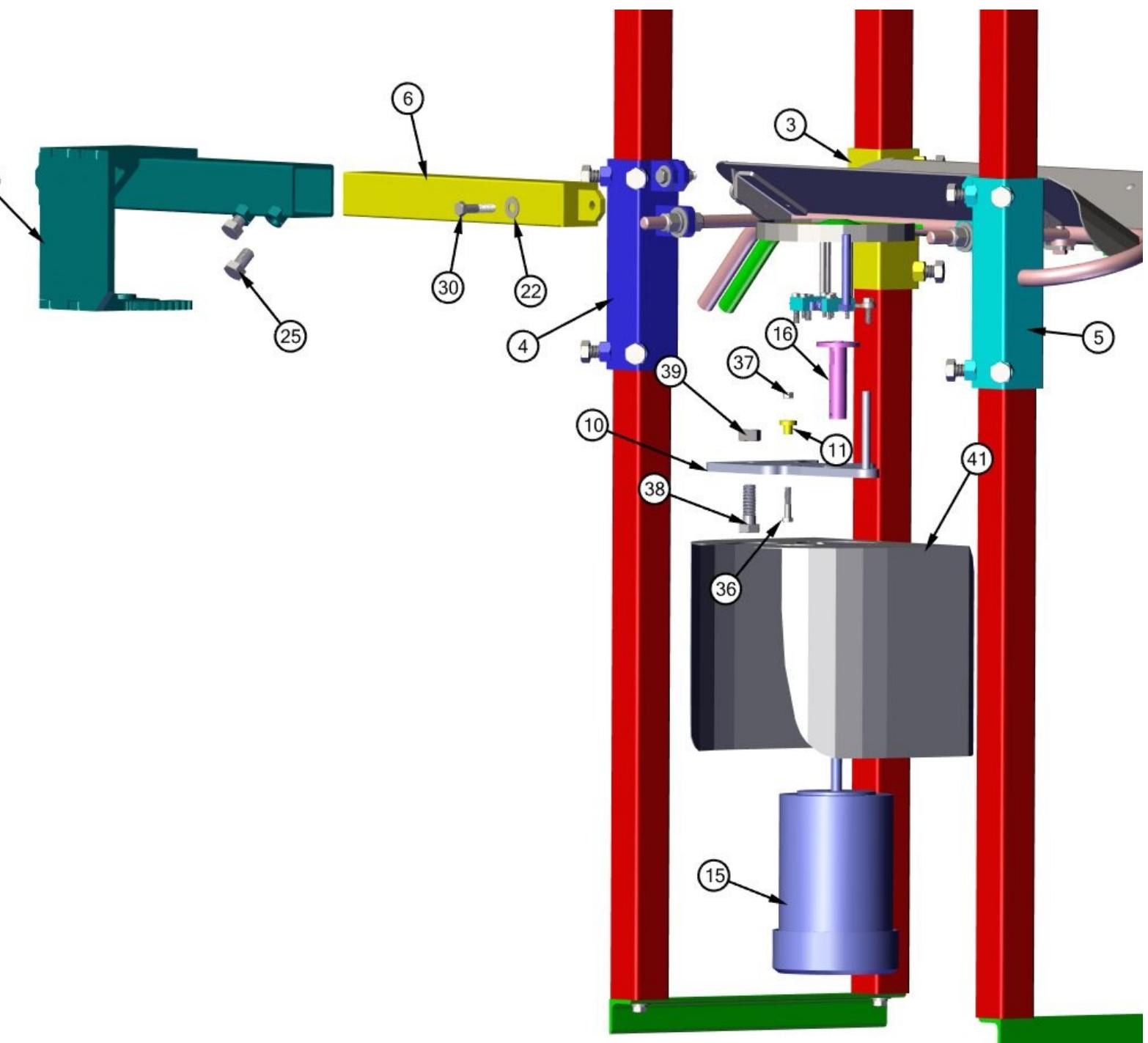
- A) Disconnect Power and Lock-out machine
- B) Remove Guide bar cover (loc# 48) by pulling rearward and slightly up.
- C) By squeezing handle (loc#12) take blade (loc# 18) out of line.
- D) Loosen and remove arbor bolt(loc # 21).
- E) Remove Blade retainer (#17).
- F) Remove Blade (loc # 18).
- G) Sharpen blade (loc# 18).
- H) Reinstall Blade (loc # 18).
- I) Reinstall Blade retainer (#17)
- J) Replace and tighten arbor bolt(loc # 21).
- K) By squeezing handle (loc#1) place blade (loc# 18) back into line.
- L) Replace guide bar cover (loc # 48) by aligning slots with pegs. Push downward then forward to secure cover.
- M) Remove lock-out and reconnect power.

1 MAN @ 20 MINUTES

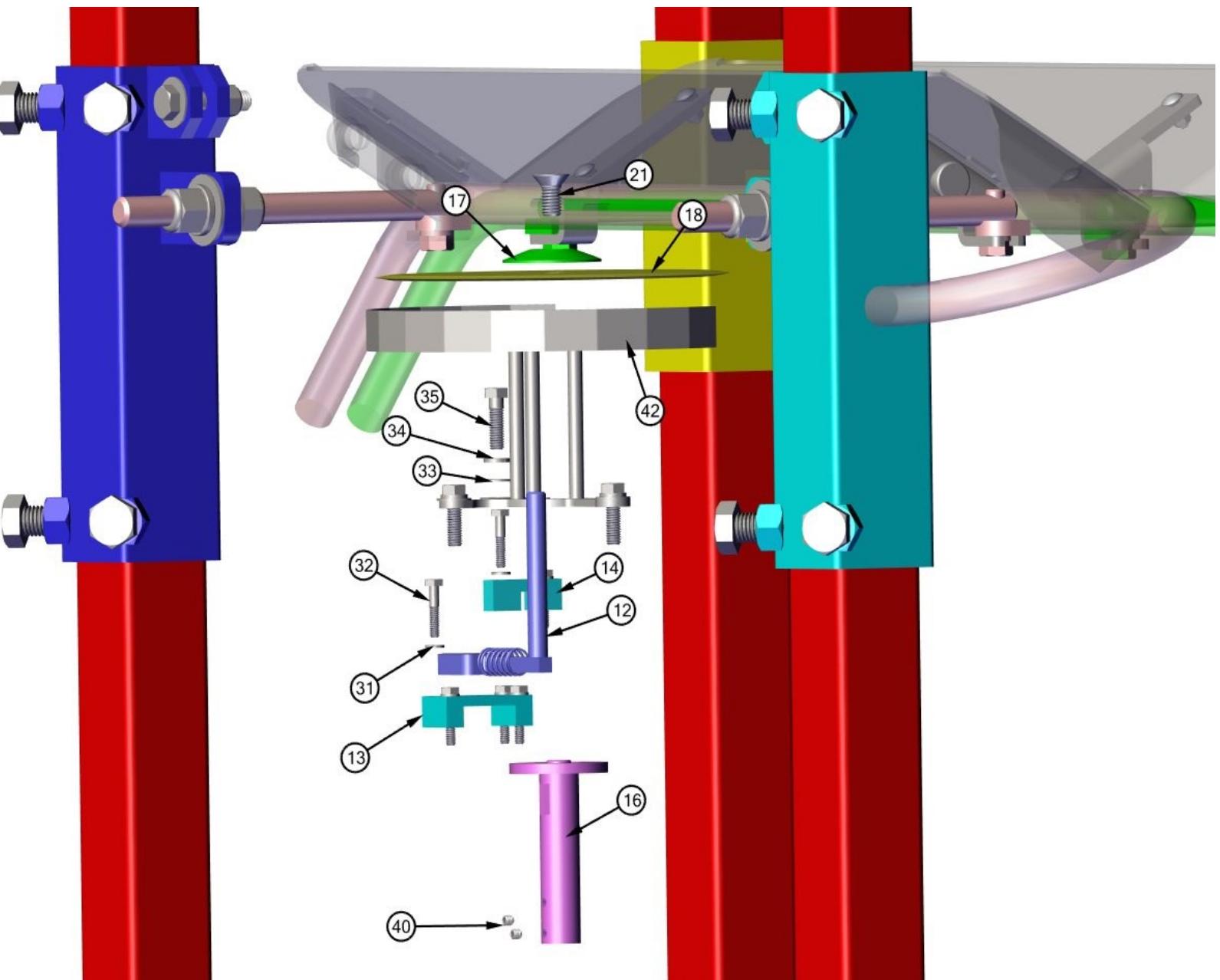
NOTES

Important! You should utilize this page to write notes concerning the installation, operation, cleaning, maintenance and safety of your new equipment. Write down response by equipment manufacturer. Retain for future reference.

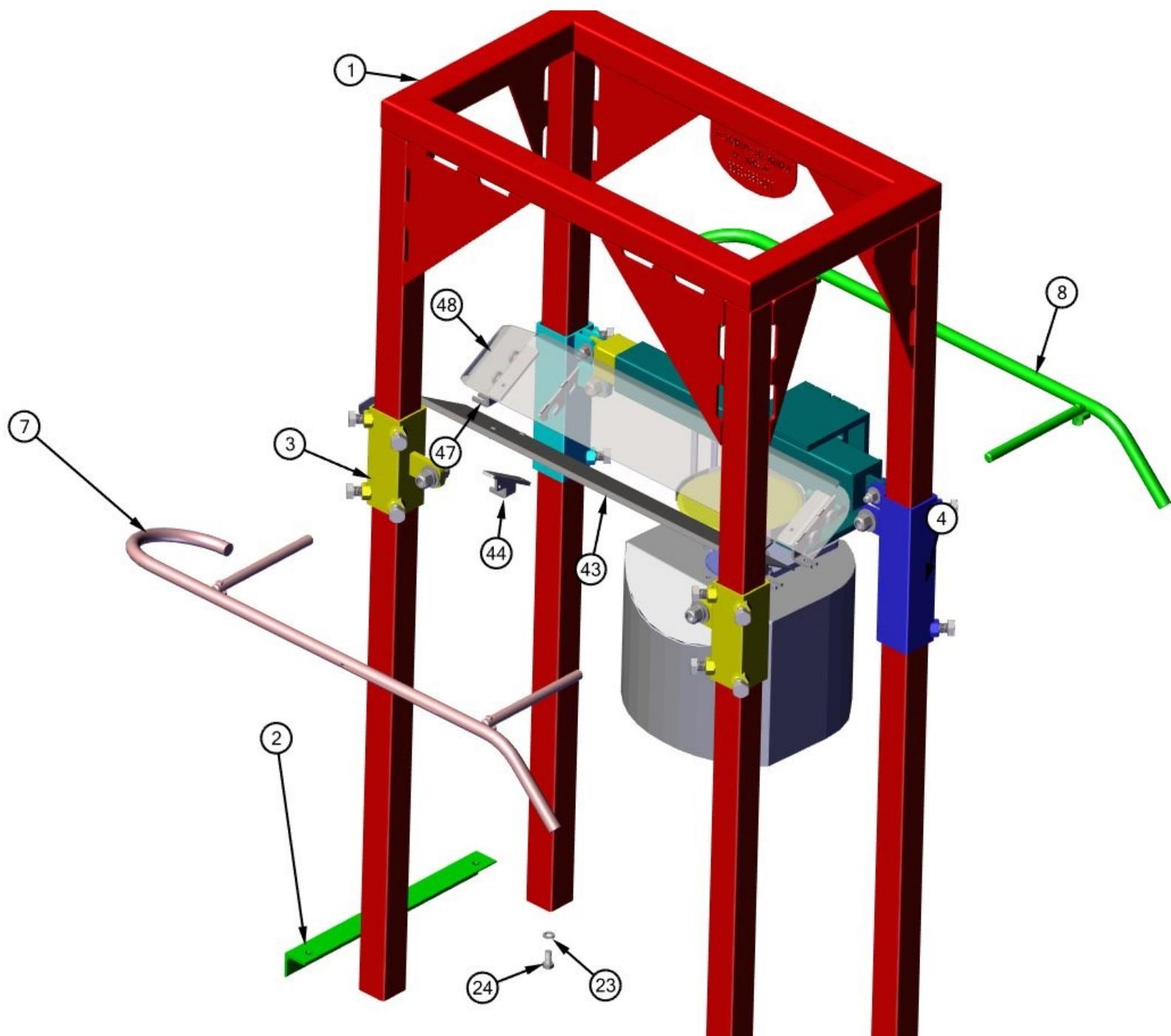
Section VIII: EXPLODED VIEW of PARTS



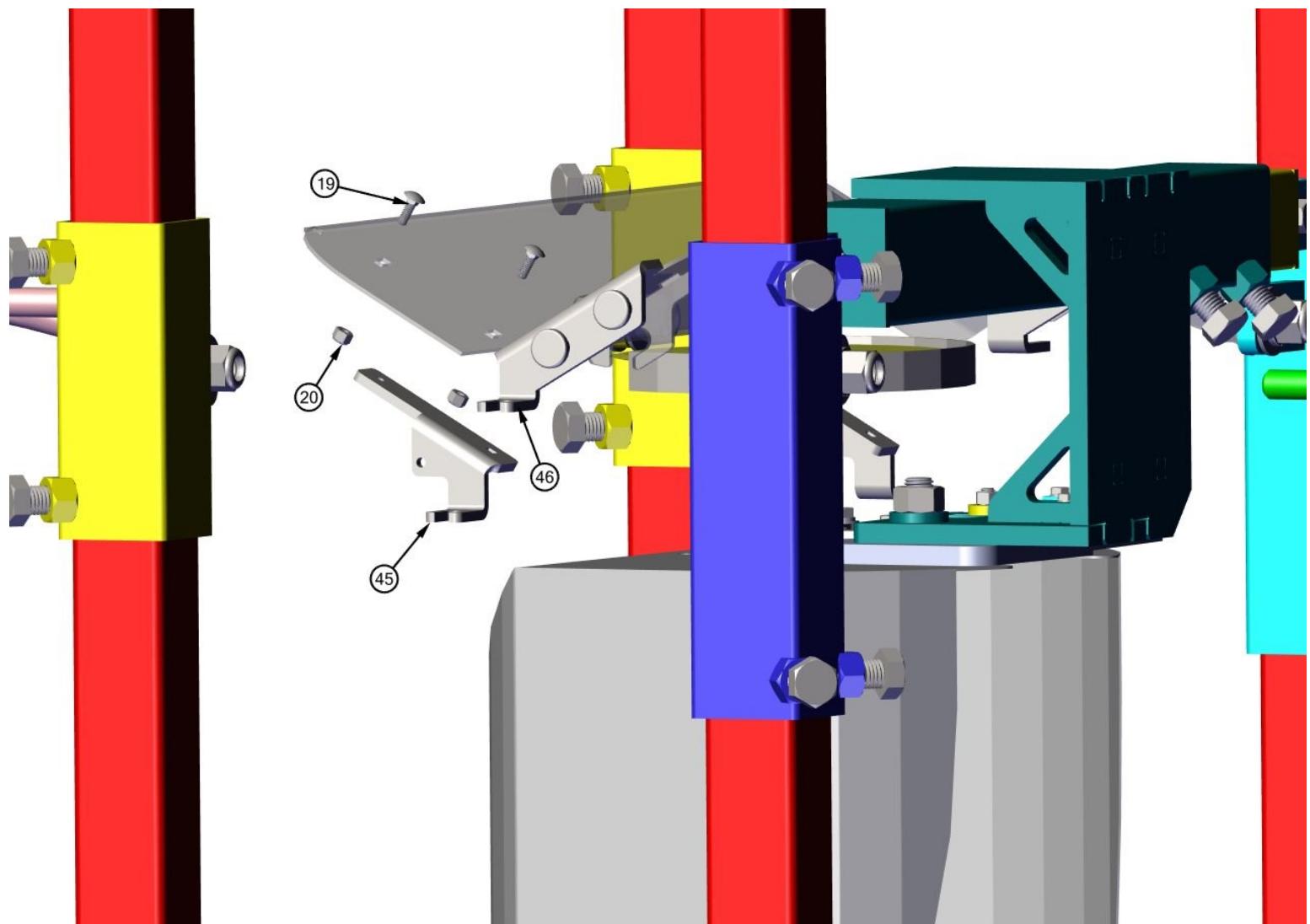
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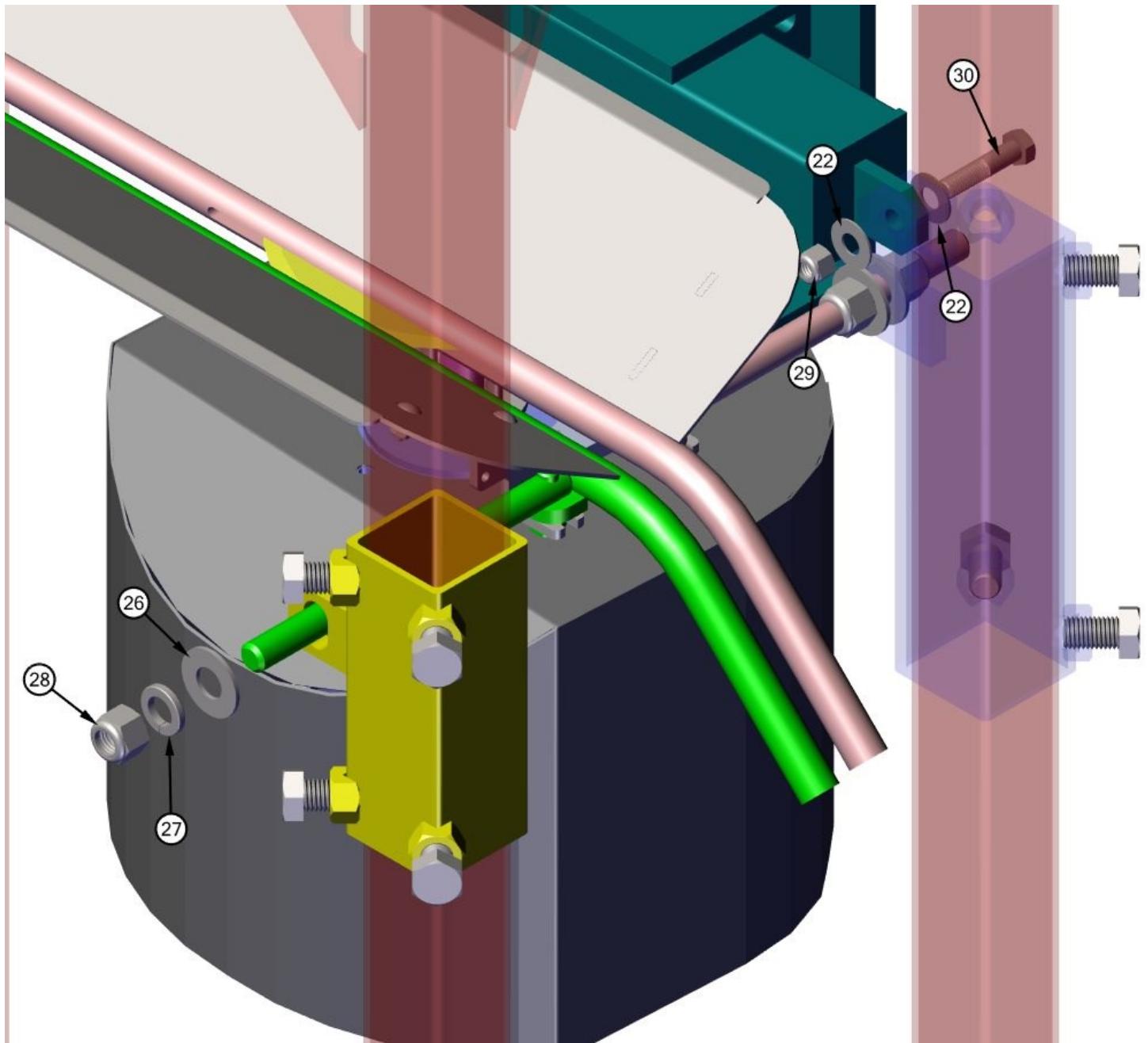
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Section VIII: EXPLODED VIEW of PARTS



Section VIII: EXPLODED VIEW of PARTS



Section IX: PARTS LIST

LOC	BPE PART #	DESCRIPTION	QTY.
1	BPE-1758	Frame, Head Puller	1
2	BPE-1765	Angle Support	2
3	BPE-1767	Support, Guide Bar	2
4	BPE-1759	Support, Guide Bar & Motor, Left Side	1
5	BPE-1760	Support, Guide Bar & Motor, Right Side	1
6	BPE-1768	Support, Motor Mount Frame	1
7	BPE-1769	Guide Bar, Right Hand	1
8	BPE-1770	Guide Bar, Left Hand	1
9	BPE-1761	Spacer, Adjustment Side	1
10	BPE-1762 BPE-1793	Motor Mount Plate, Left Hand Motor Mount Plate, Right Hand	1
11	BPE-1771	Spacer, Adjustment Slide	1
12	BPE-1772	Plunger	1
13	BPE-1773	Plunger Housing	1
14	BPE-1774	Plunger Bar	1
15	BPE-7042	1 Hp Motor	1
16	BPE-1777 BPE-1831	Arbor, Left Hand Arbor, Right Hand	1
17	BPE-1778	Blade Retainer	1
18	BPE-1152	9" blade	1
19	25C75BCGS	Bolt, Round Hd Carriage, 1/4-20 x .75 Lg, ss	4
20	25CNNES	Hex Lock Nut, 1/4-20, ss	4
21	50C100KFCS	Bolt, Socket Flat Hd, 1/2-13 x 1.0 Lg, ss	1
22	50NWCOS	Washer, Flat, 1/2, ss	8
23	50NLRSS	Washer, Lock, 1/2, ss	4
24	50C100HCSS	Bolt, Hex Hd, 1/2-13 x 1.0 Lg, ss	4
Misc.	LABELS	DANGER / CAUTION / WARNING LABELS	

Section IX: PARTS LIST

LOC	BPE PART #	DESCRIPTION	QTY.
25	75C125HCSS	Bolt, Hex Hd, 3/4-10 x 1.25 Lg, ss	18
26	1171027	Washer, Flat, 3/4, ss	9
27	75NLRSS	Washer, Lock, 3/4, ss	4
28	1170867	Hex Lock Nut, 3/4-10, ss	8
29	50CNNES	Hex Lock Nut, 1/2-13, ss	2
30	50C225HCSS	Bolt, Hex Hd, 1/2-13 x 2.25 Lg, ss	2
31	25NLRSS	Washer, Lock, 1/4, ss	6
32	25C125HCSS	Bolt, Hex Hd, 1/4-20 x 1.25 Lg, ss	6
33	37NWCOS	Washer, Flat, 3/8, ss	4
34	37NLRSS	Washer, Lock, 3/8, ss	3
35	37C125HCSS	Bolt, Hex Hd, 3/8-16 x 1.25 Lg, ss	3
36	37C175HCSS	Bolt, Hex Hd, 3/8-16 x 1.75 Lg, ss	1
37	37CNFHS	Hex Nut, 3/8-16, ss	1
38	75C225HCSS	Bolt, Hex Hd, 3/4-10 x 2.25 Lg, ss	1
39	75CNFHS	Hex Nut, 3/4-10, ss	1
40	25C25KKCS	Screw, Socket Set, 1/4-20 x .25, ss	4
41	BPE-9416	Motor Cover	1
42	BPE-10319	Blade Guard	1
43	BPE-10311	Right Hand Guide Bar For Left Hand Machine	1
44	BPE-10314	Right Hand Stationary Guide Bar Cover Bracket	1
45	BPE-10313	Left Hand Stationary Guide Bar Cover Bracket	1
46	BPE-10318	Removable Left Hand Guide Bar Cover Bracket	1
47	BPE-10317	Removable Left Hand Guide Bar Cover Bracket	1
48	BPE-10312	Left Hand Guide Bar For Right Hand Machine	1
Misc.	LABELS	DANGER / CAUTION / WARNING LABELS	

Section X: RECOMMENDED SPARE PARTS LIST

LOC	BPE PART #	DESCRIPTION	QTY.
15	BPE-7042	1 Hp Motor	1
16	BPE-1777	Arbor, Left Hand Thread	1
16	BPE-1831	Arbor, Right Hand Thread	1
17	BPE-1778	Blade Retainer	1
18	PBD-8399	9" Blade	1
42	BPE-10319	Blade Guard	1

Section XI: BERRY DISCLAIMER



6736 Cleveland Hwy., Clermont, Ga. 30527

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This Berry Technical manual has been written for a specific Equipment model and/or System based upon Berry design and manufacture. Berry uses the highest quality OEM parts and components as part of the original fabrication and manufacture of Berry machinery and/or systems. Berry holds no responsibility for the information within this manual to be applicable or correct if original parts have been replaced with different components or the design, program, build, or manufacture has been altered or modified in any way.

Section XII: BERRY LETTER OF CONFORMITY



6736 Cleveland Hwy., Clermont, Ga. 30527
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Whom It May Concern:

This letter is to advise you that all equipment manufactured by Berry Plumbing & Equipment has been designed with USDA specifications considered in respect to Safety and Sanitation. All equipment is fabricated with safety measures such as guards, safety switches, emergency stop buttons, etc. to ensure the safety of all operators. In addition, the equipment is designed to meet requirements of HACCP and Sanitation SOP regulations, which the plant establishment follows to ensure that the product produced is unadulterated. Please refer to each machine's technical manual for proper use and instruction of the installation, operation, cleaning, and safety guidelines.

If you have any questions, please contact us at:

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Thank you.
Todd Berry
Business Operations Manager