

CTHC 3000 SEED TREATER

EQUIPMENT REVISION: 01A

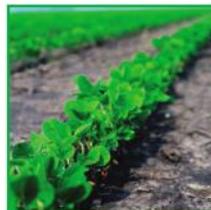


PARTS MANUAL

Document: MD-09-06-5014

Revision: A

Effective Date: 02-2020



INTRODUCTION

Thank you for choosing USC, LLC for your equipment needs. We appreciate your business and will work diligently to ensure that you are satisfied with your choice.

OVERVIEW

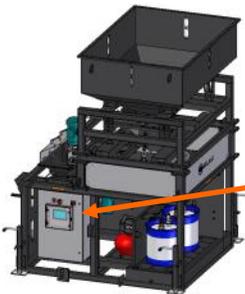
The purpose of this manual is to provide you with the basic information needed to operate and maintain the CTHC 3000 treater. It does not hold USC, LLC liable for any accidents or injuries that may occur.

The technical information provided in this document is based on extensive testing under controlled conditions at the USC research and development facility. This information is given without guarantee as the conditions of operation and storage of the equipment are beyond our control. Variables such as temperature, humidity, viscosity of chemical products and changes in seed size or variety may all effect the accuracy of application and seed coverage. Periodically check the equipment calibration while treating and make adjustments as required. This will insure the optimum seed coverage.

RECEIVING YOUR EQUIPMENT

As soon as the equipment is received, it should be carefully inspected to make certain that it has sustained no damage during shipment and that all items listed on the packing list are accounted for. If there is any damage or shortages, the purchaser must immediately notify USC, LLC. Ownership passes to purchaser when the unit leaves the USC, LLC. premises. The purchaser is responsible for unloading and mounting all components of the equipment.

Document the serial number of the machine for future reference. The serial number is located on the right side of the control panel mounting bracket.



*Serial
Number*

SERIAL NUMBER: _____

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SECTION SAFETY INSTRUCTIONS

Every year accidents in the work place maim, kill and injure people. Although it may be impossible to prevent all accidents, with the right combination of training, operating practices, safety devices, and operator vigilance, the number of accidents can be significantly reduced. The purpose of this section is to educate equipment users about hazards, unsafe practices, and recommended hazard avoidance techniques.

If any of the required regularly scheduled maintenance is located above the reach of the operator, they should follow the companies normal safe practices of reaching that particular height, utilizing the companies specified equipment and following normal safety precautions.

When working with treatment chemicals, operators should always wear protective gloves, safety glasses, and follow the companies safety precautions in the case of any spillage or operator contamination.

SAFETY WORDS AND SYMBOLS

It is very important that operators and maintenance personnel understand the words and symbols that are used to communicate safety information. Safety words, their meaning and format, have been standardized for U.S. manufacturers and published by the American National Standards Institute (ANSI). The European Community (E.C.) has adopted a different format based on the International Standards Organization (I.S.O.) and applicable machinery directives. Both formats are presented below. Graphic symbols are not standardized, but most manufacturers will use some variation of the ones seen in this manual.



Indicates an imminently hazardous situation which, if not avoided, **will** result in death or serious injury.



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



Indicates a potentially hazardous situation which, if not avoided, **may** result in minor or moderate injury and/or property damage.



Provides additional information that the operator needs to be aware of to avoid a potentially hazardous situation.



Mandatory Lockout Power Symbol. Disconnect, lockout and tag-out electrical and other energy sources before inspecting, cleaning or performing maintenance on this panel.



International Safety Alert Symbol. The exclamation point (!) surrounded by a yellow triangle indicates that an injury hazard exists. However, it does not indicate the seriousness of potential injury. The exclamation point (!) is also used with the DANGER, WARNING and CAUTION symbols so the potential injury is indicated.



Electrocution Hazard Symbol. This symbol indicates that an electrocution hazard exists. Serious injury or death could result from contacting high voltage.



International Electrocution Hazard. This symbol indicates that an electrocution hazard exists. Serious injury or death could result from contacting high voltage.



Mandatory Read Manual Action Symbol. (I.S.O. format) This symbol instructs personnel to read the Operators Manual before servicing or operating the equipment.



Mandatory Read Manual Action Symbol. This symbol instructs personnel to read the Operators Manual before servicing or operating the equipment.



Notice is used to notify people of important installation, operation or maintenance information which is not hazard related.

LOCKOUT / TAGOUT PROCEDURES

Lockout/Tagout is the placement of a lock/tag on an energy isolating device in accordance with an established procedure. When taking equipment out of service to perform maintenance or repair work, always follow the lockout/tagout procedures as outlined in ANSI Z344.1 and/or OSHA Standard 1910.147. This standard “requires employers to establish a program and utilize procedures for affixing appropriate lockout devices or tagout devices to energy isolating devices and to otherwise disable machines or equipment to prevent unexpected energizing, start-up, or release of stored energy in order to prevent injury to employees.”

CONTROLLED STOP

This is the stopping of machine motion by reducing the electrical command signal to 0 (zero) once the stop signal has been recognized.

HAZARD REVIEW

Electrocution Hazard



Electrocution accidents are most likely to occur during maintenance of the electrical system or when working on or near exposed high voltage wiring. This hazard does not exist when the electrical power has been disconnected, properly locked, and tagged out.

Automatic Start Hazard



The equipment may be controlled by an automated system and may start without warning. Failure to properly disconnect, lockout, and tagout all energy sources of remotely controlled equipment creates a very hazardous situation and could cause injury or even death. PLEASE STAY CLEAR AND BE ALERT.

YOU are responsible for the **SAFE** operation and maintenance of your USC, LLC equipment . **YOU** must ensure that you and anyone else who is going to operate, maintain or work around the equipment be familiar with the operating and maintenance procedures and related **SAFETY** information contained in this manual. This manual will take you step-by-step through your working day and alert you to good safety practices that should be adhered to while operating the equipment

Remember, **YOU** are the key to safety. Good safety practices not only protect you, but also the people around you. Make these practices a working part of your safety program. Be certain that **EVERYONE** operating this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- Equipment owners must give operating instructions to operators or employees before allowing them to operate the machine, and at least annually thereafter per OSHA (Occupational Safety and Health Administration) regulation 1928.57.
- The most important safety device on this equipment is a **SAFE** operator. It is the operator's responsibility to read and understand **ALL** Safety and Operating instructions in the manual and to follow them. All accidents can be avoided.
- A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.
- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.
- Think SAFETY! Work SAFELY!

GENERAL SAFETY

1. Only trained persons shall operate the equipment . An untrained operator is not qualified to operate the machine.
2. Have a first-aid kit available for use should the need arise, and know how to use it.
3. Provide a fire extinguisher for use in case of an accident. Store in a highly visible place.
4. Do not allow children, spectators or bystanders within hazard area of machine.



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5. Wear appropriate protective gear. This includes but is not limited to:

- A hard hat
- Protective shoes with slip resistant soles
- Protective goggles
- Heavy gloves
- Hearing protection
- Respirator or filter mask



6. Place all controls in neutral or off, stop motor, and wait for all moving parts to stop. Then disable power source before servicing, adjusting, repairing, or unplugging.
7. Review safety related items annually with all personnel who will be operating or maintaining the conveyor.



OPERATING SAFETY:

1. Read and understand the operator's manual and all safety signs before using.
2. Disconnect and disable electrical supply completely and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
3. Clear the area of bystanders, especially children, before starting.
4. Be familiar with the machine hazard area. If anyone enters hazard area, shut down machine immediately. Clear the area before restarting.
5. Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
6. Stay away from overhead obstructions and power lines during operation and transporting. Electrocution can occur without direct contact.
7. Do not operate machine when any guards are removed.
8. Inspect welds and repair if needed.

PLACEMENT SAFETY

1. Move only with the appropriate equipment
2. Stay away from overhead power lines when moving the conveyor. Electrocution can occur without direct contact.
3. Be familiar with machine hazard area. If anyone enters hazard areas, shut down machine immediately. Clear the area before restarting.
4. Operate the conveyor on level ground free of debris. Anchor the conveyor to prevent tipping or upending.

TRANSPORT SAFETY

1. Read and understand ALL the information in the operator's manuals regarding procedures and SAFETY when moving or transporting the treater.
2. This item is not intended to be transported on public highways or at high speed.
3. Always travel at a safe speed. Use caution when making corners.
4. Do not allow riders on the treater or the towing vehicle when transporting.
5. Attach treater to towing vehicle with a pin and retainer.
6. Swing the conveyor to the side and lock in position.
7. Raise jacks.
8. Close and lock the extended jack shaft on the conveyor side.
9. Do not exceed 25 m.p.h. (40 km/h). Reduce speed on rough roads and surfaces.
10. Stay away from overhead obstructions and power wires when transporting.
Electrocution can occur without direct contact.
11. Always use hazard warning flashers on tractor when transporting on site.
12. When moving from site to site on public highways, always move the treater on a DOT certified trailer.

TIRE SAFETY

1. Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death.
2. Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.
3. Have a qualified tire dealer or repair service perform required tire maintenance.
4. When replacing worn tires, make sure they meet the original tire specifications. Never undersize.



Before placement of the conveyor, be sure that ground is reasonably level. The conveyor may topple or work improperly if the ground is too uneven, damaging the equipment and/or causing personal injury.

MAINTENANCE SAFETY

1. Review the operator's manual and all safety items before working with, maintaining or operating the equipment.
2. Place all controls in neutral or off, stop motors, disable power source, and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
3. Follow good shop practices:
Keep service area clean and dry.
Be sure electrical outlets and tools are properly grounded.
Use adequate light for the job at hand.
4. Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
5. Clear the area of bystanders, especially children, when carrying out any maintenance and repairs or making any adjustments.
6. Before resuming work, install and secure all guards when maintenance work is completed.
7. Keep safety signs clean. Replace any sign that is damaged or not clearly visible.



SAFETY LABELS

1. Keep safety labels clean and legible at all times.
2. Replace safety labels that are missing or have become illegible.
3. Replaced parts that displayed a safety label should also display the current label.
4. Replacement safety labels are available. Contact your authorized dealer.

How to Install Safety Labels:

- Be sure that the installation area is clean and dry.
- Be sure temperature is above 50°F (10°C).
- Decide on the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of sign backing paper.



Located on the USC equipment you will find safety labels.
Always be sure to read and follow all directions on the labels.



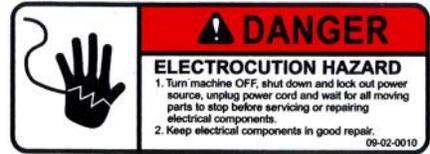
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Think **SAFETY!** Work **SAFELY!**

REMEMBER—If Safety Labels have been damaged, removed, become illegible, or parts replaced without safety labels, new labels must be applied. New safety labels are available from your authorized dealer.



Part # 09-02-0003



Part # 09-02-0010



Part # 09-02-0015



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Part # 09-02-0002



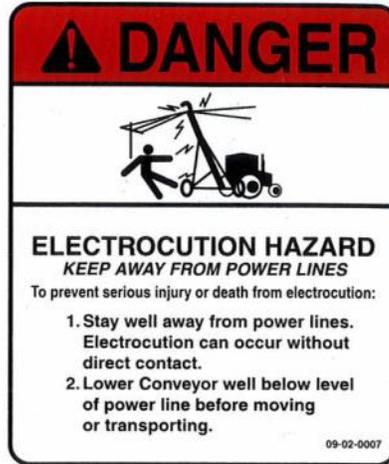
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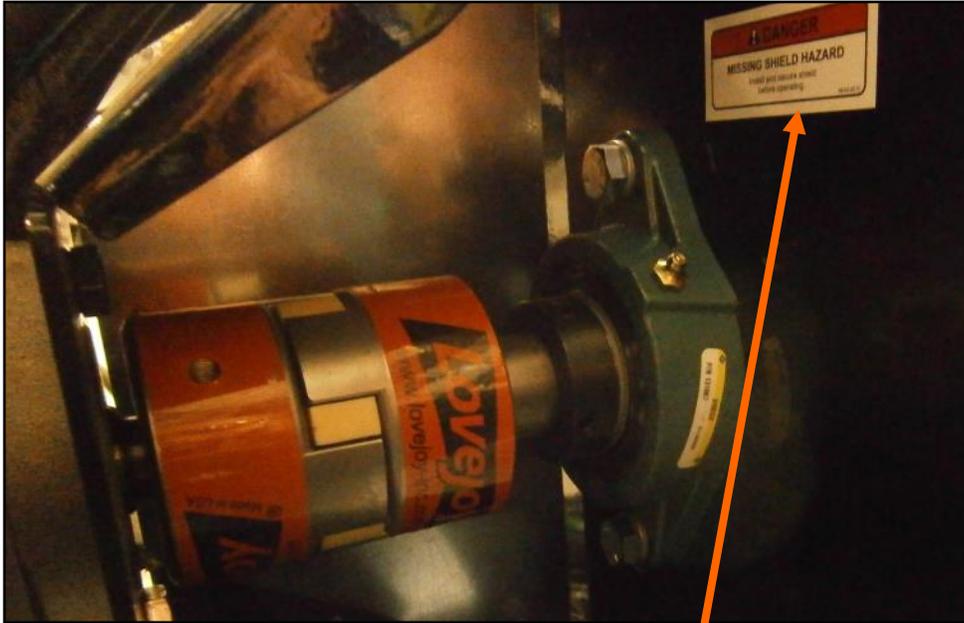
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Part # 09-02-0007



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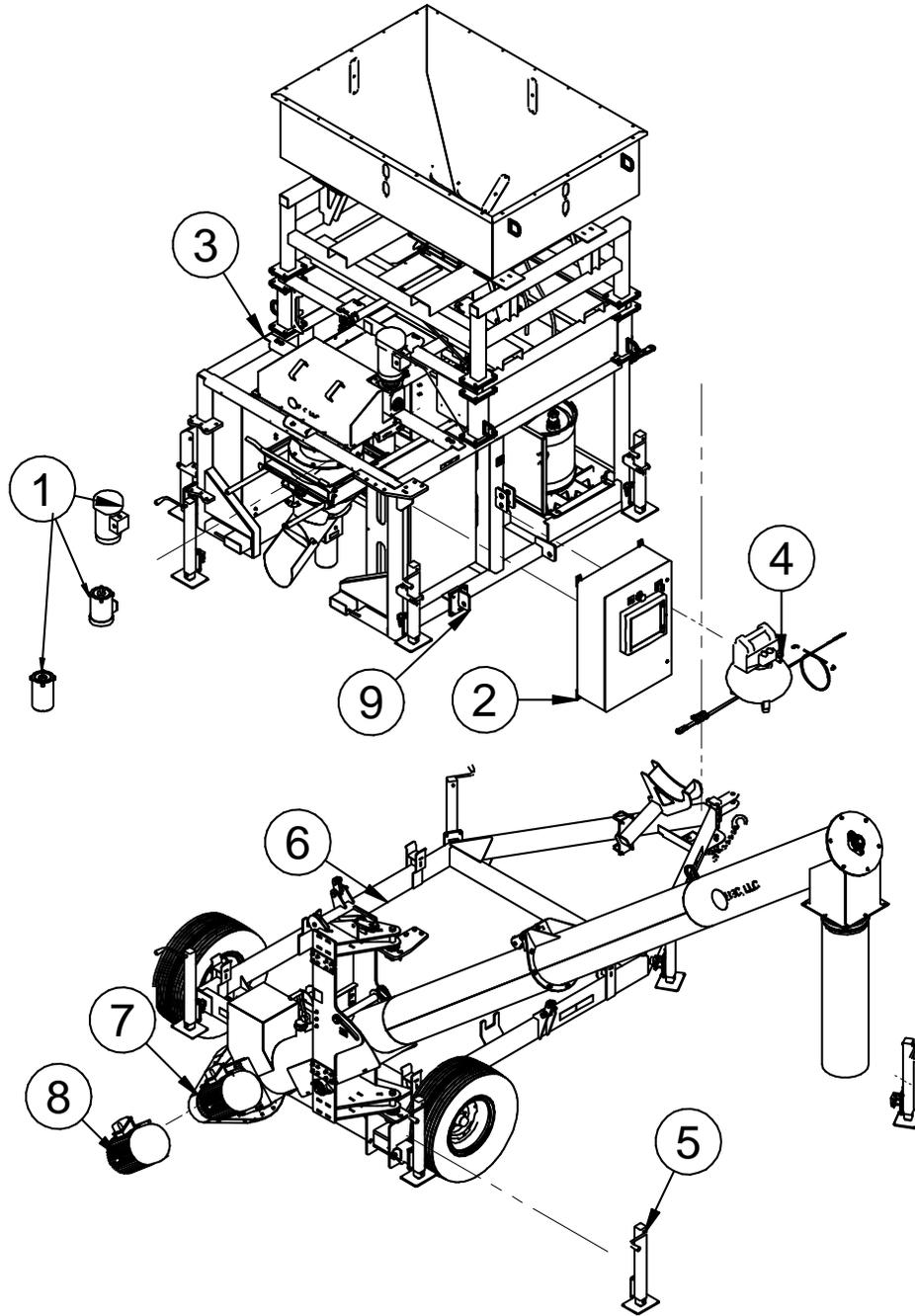
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MECHANICAL DRAWINGS SECTION

The following pages show the parts of the CTHC 3000 Seed Treater. Please have the equipment serial number and part number ready when ordering parts.

BASIC TREATER ASSEMBLY

TREATER ASSEMBLY WITH COMPRESSOR AND TRAILER/AUGER



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TREATER ASSEMBLY WITH COMPRESSOR AND TRAILER/AUGER

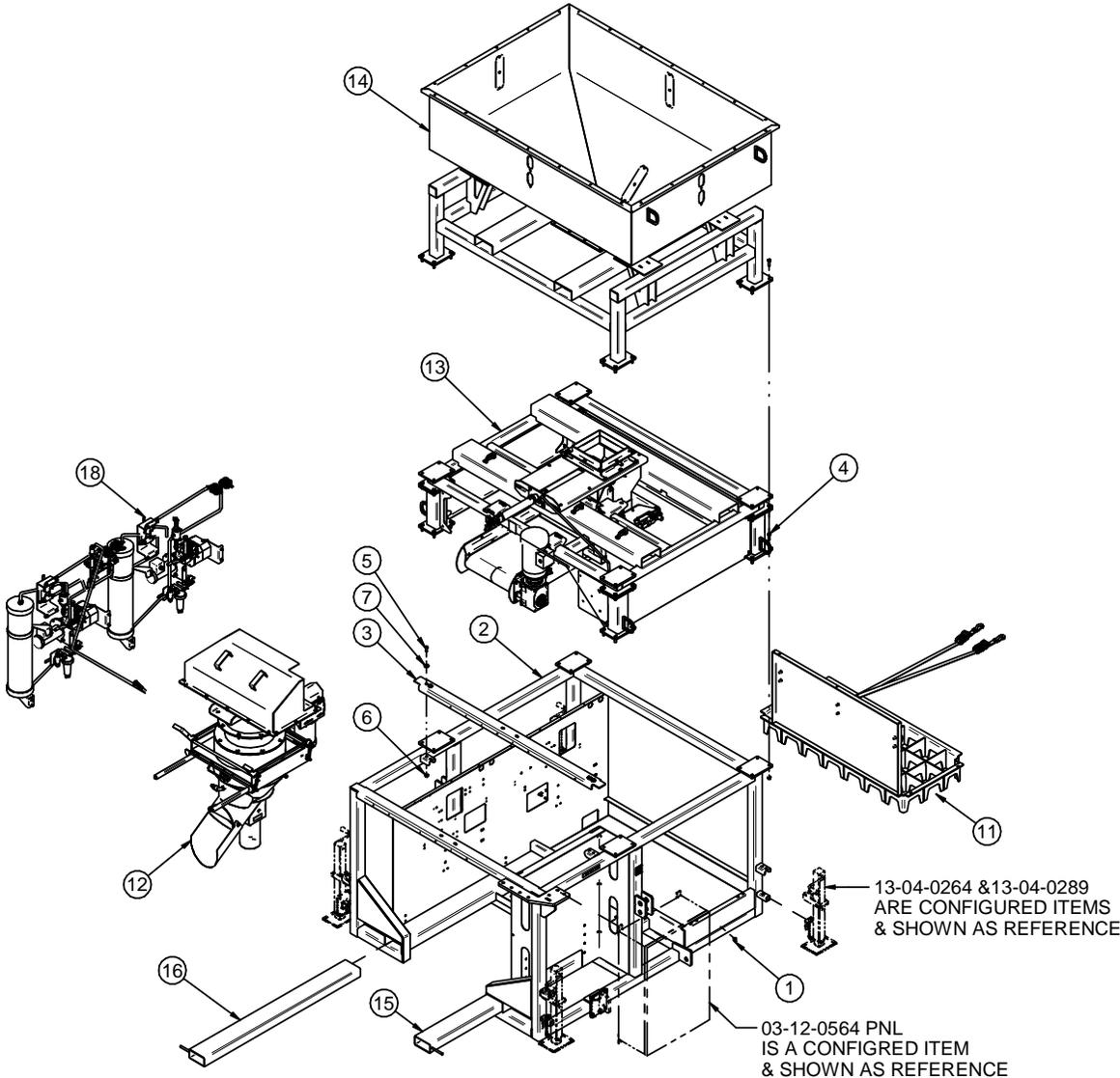
Item #	Description	See Page
1	TREATER MOTORS	17
2	CONTROL PANELS	17
3	BASE SEED TREATER	18-49
4	AIR COMPRESSOR KIT	50
5	JACK ASSEMBLIES	51-52
6	WHEEL AND AUGER ASSEMBLY	53-62
7	AUGER DRIVE KIT	63
8	AUGER MOTORS AND CORDS	64
9	3 POINT HITCH PARTS	65

CONTROL PANELS AND MOTORS

CONTROL PANELS		
VOLTAGE	PART #	DESCRIPTION
240V / 1PH	03-12-0575	PNL CNTL CTHC 240V 1PH
240V / 3PH	03-12-0576	PNL CNTL CTHC 240V 3PH
575V / 3PH	03-12-0577	PNL CNTL CTHC 575V 3PH

BASIC MOTORS			
VOLTAGE	PART #	DESCRIPTION	USE
240V / 1PH / 3PH	01-01-0087	MTR .5HP 1725RPM S56C 3PH INDY	NEBULIZER DRIVE
240V / 1PH / 3PH	01-01-0095	MTR 1HP 1725RPM 56C 3PH	WEIGH BELT DRIVE
240V / 1PH / 3PH	01-01-0105	MTR .33HP 1725RPM 56C 3PH TENV	ATOMIZER DRIVE
575V / 3PH	01-01-0144	MTR .5 HP 1725 RPM 56C 575V TENV	NEBULIZEER DRIVE
575V / 3PH	01-01-0282	MTR 1HP 1725RPM 56C 3PH 575V	WEIGH BELT DRIVE
575V / 3PH	01-01-0144	MTR .5 HP 1725 RPM 56C 575V TENV	ATOMIZER DRIVE

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ASSEMBLY BASIC CTHC (13-01-0359 REV C0)

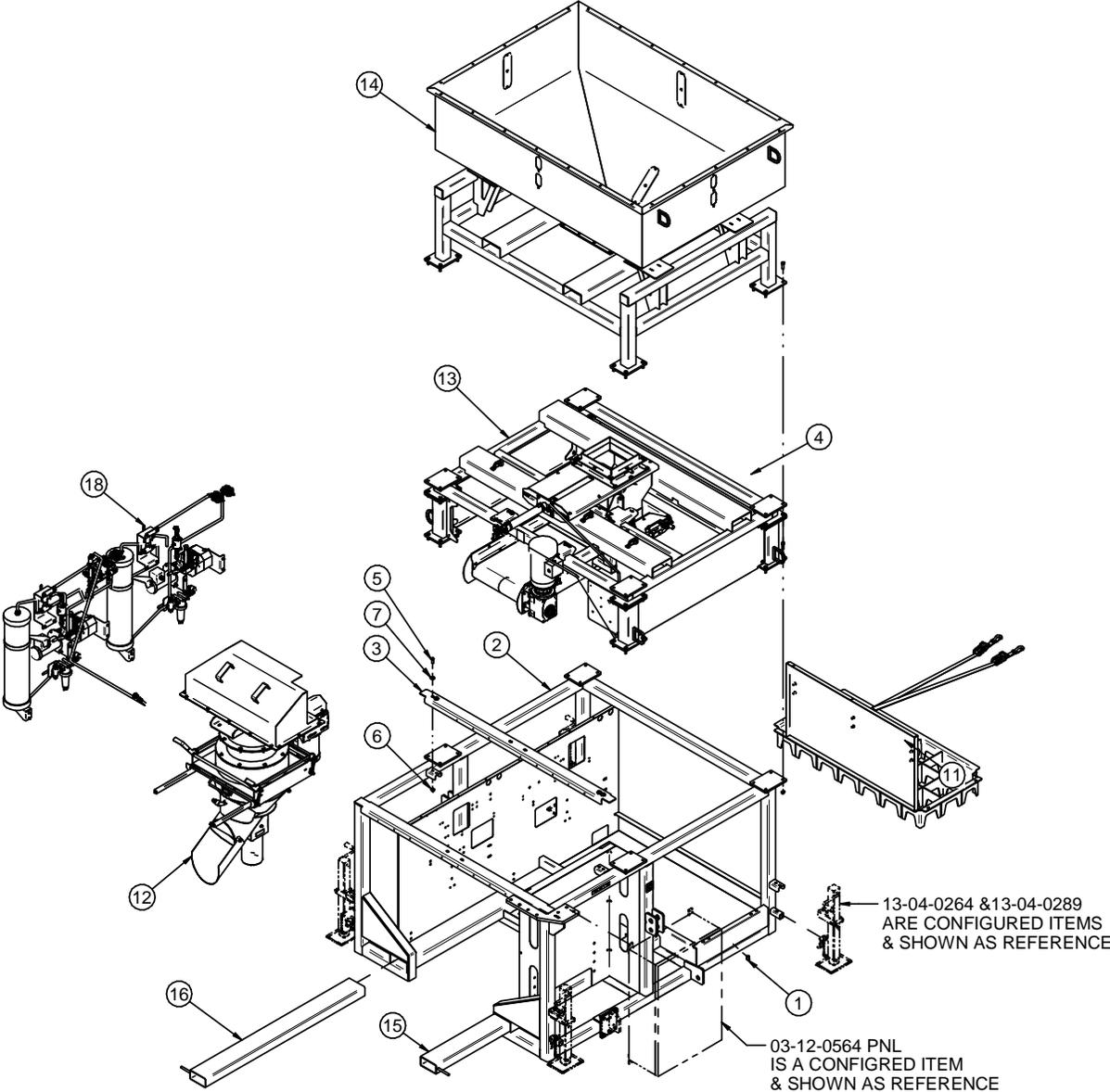


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ASSEMBLY BASIC CTHC (13-01-0359 REV C0)

PART #		13-01-0359 REV C0		
Item #	Part #	Description	Qty	See Page
1	02-14-0001	FTTG PLUG SQHD .500 NPT SS	2	
2	05-03-1778	WDMT FRM BASE CTHC 3000	1	
3	05-10-4823	CHNNL ATMZ MNT	1	
4	06-01-0054	BOLT .500-13 X 1.75 ZP GR5	16	
5	06-01-0080	BOLT .500-13 X 1.25 ZP GR5	8	
6	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	24	
7	06-05-0005	WSHR FLAT .500 ZP	8	
8	09-01-0003	ATWK LBL MADE IN USA YEL 2.50X2.50	1	
9	09-02-0018	LBL ATWRK 1-2-3 TRI-FLOW	2	
10	09-02-0228	LBL ATWRK LOAD CELL CTHC	1	
11	09-02-0229	LBL ATWRK LEVEL SURFACE CTHC	1	
12	13-04-0259	ASSY ATOMIZER CTHC 3000	1	30
13	13-04-0260	ASSY WB CTHC 3000	1	22
14	13-04-0261	ASSY HOPPER CTHC 3000	1	20
15	13-04-0262	ASSY FORK EXT RH CTHC 3000	1	49
16	13-04-0263	ASSY FORK EXT LH CTHC 3000	1	49
17	13-04-0265	ASSY GRATE CTHC 3000	1	46
18	13-05-0745	ASSY PLUMBING CTHC 3000	1	40

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ASSEMBLY BASIC CTHC (13-01-0359 REV C0)



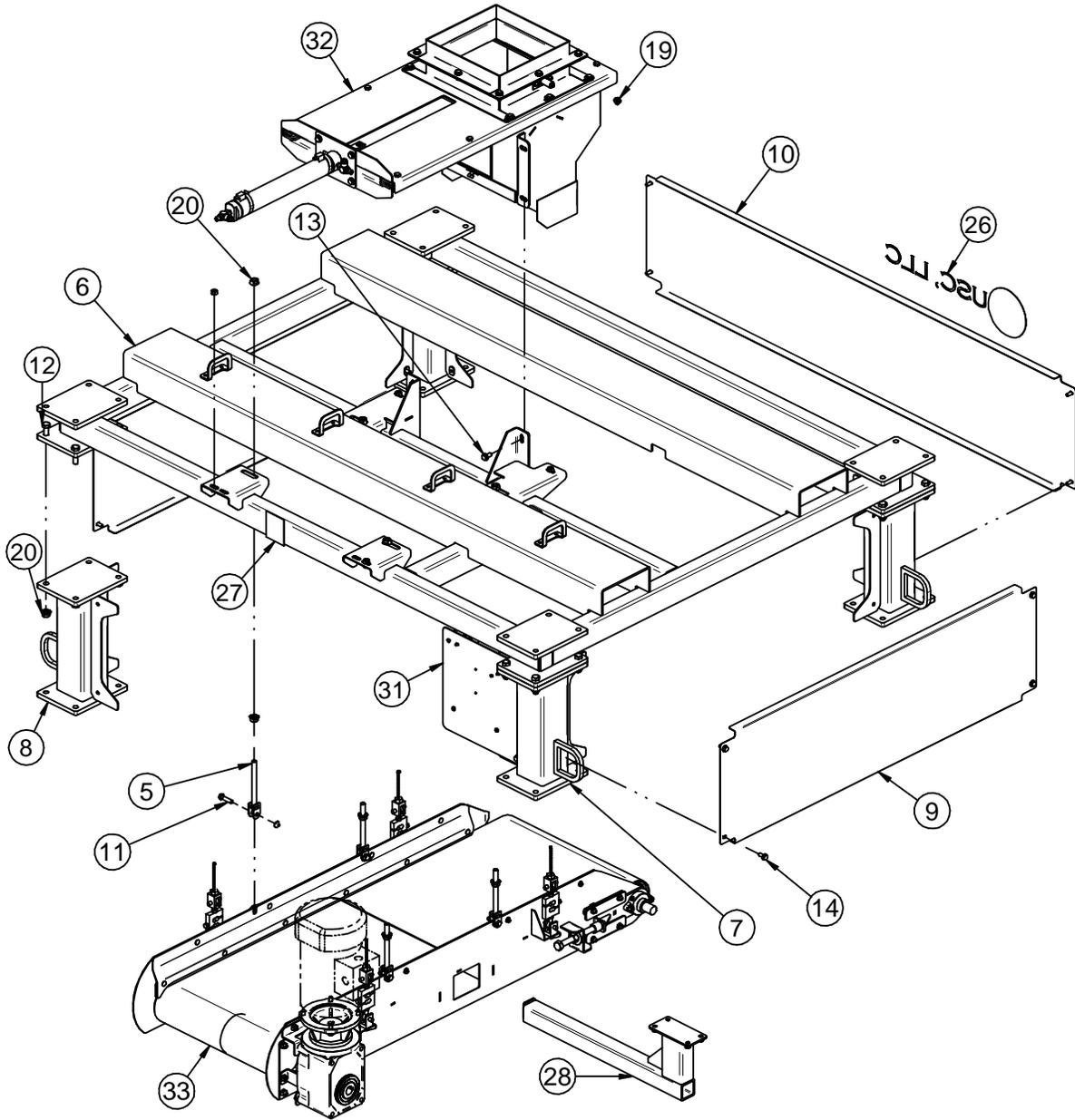
CTHC 3000 SEED TREATER

ASSEMBLY HOPPER CTHC (13-04-0261 REV A1)

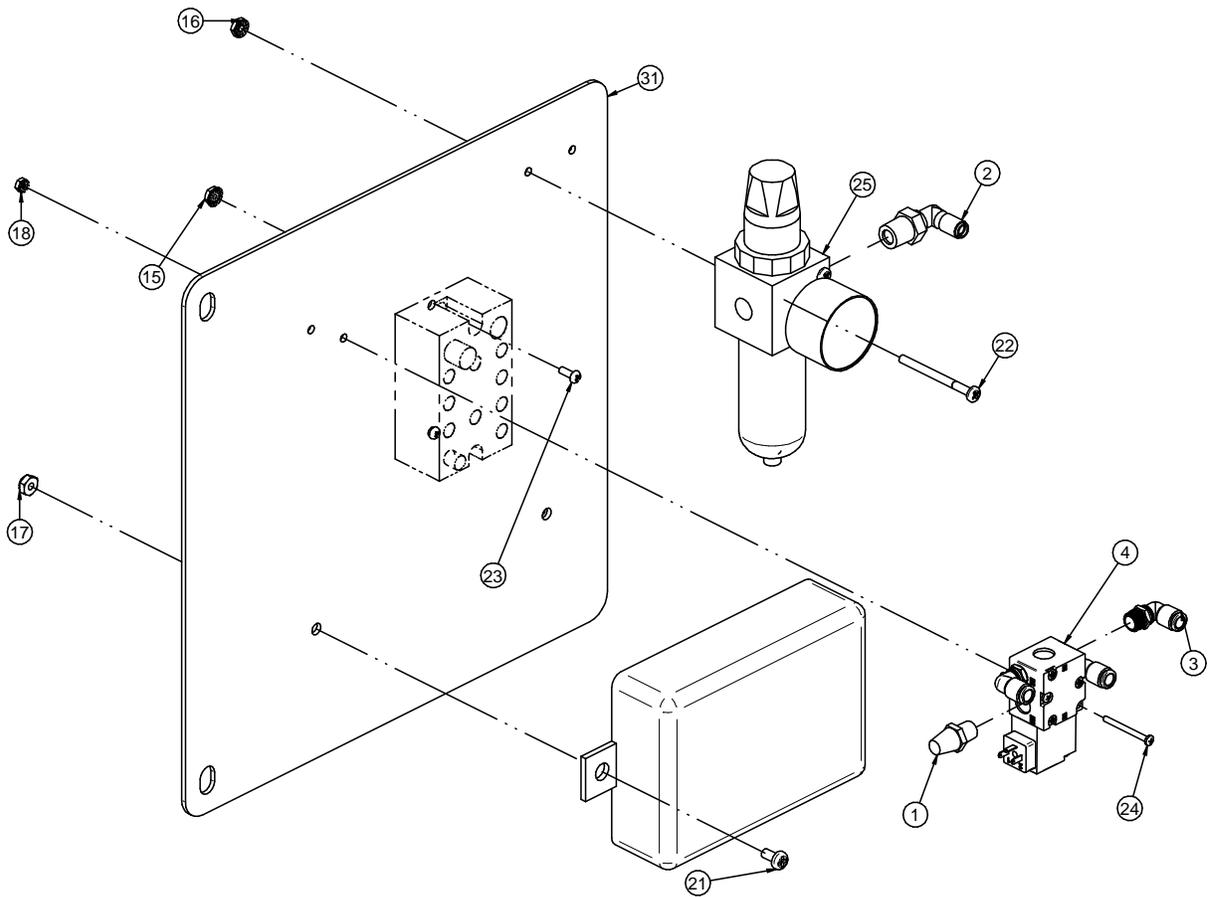
PART #		13-04-0261 REV A1	
Item #	Part #	Description	Qty
1	05-03-1821	WDMT HOPP FRM CTHC 30000	1
2	05-03-1822	WDMT HOPP CHUTE CTHC 3000	1
3	06-01-0015	BOLT .375-16 X .750 ZP GR5	12
4	06-01-0080	BOLT .500-13 X 1.25 ZP GR5	8
5	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	12
6	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	8
7	06-05-0005	WSHR FLAT .500 ZP	8
8	13-04-0285	ASSY HOPP CTHC 50 UNIT	1

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ASSEMBLY WEIGHT BELT CTHC (13-04-0260 REV B1)



CTHC 3000 SEED TREATER
ASSEMBLY WEIGHT BELT CTHC (13-04-0260 REV B1)



CTHC 3000 SEED TREATER

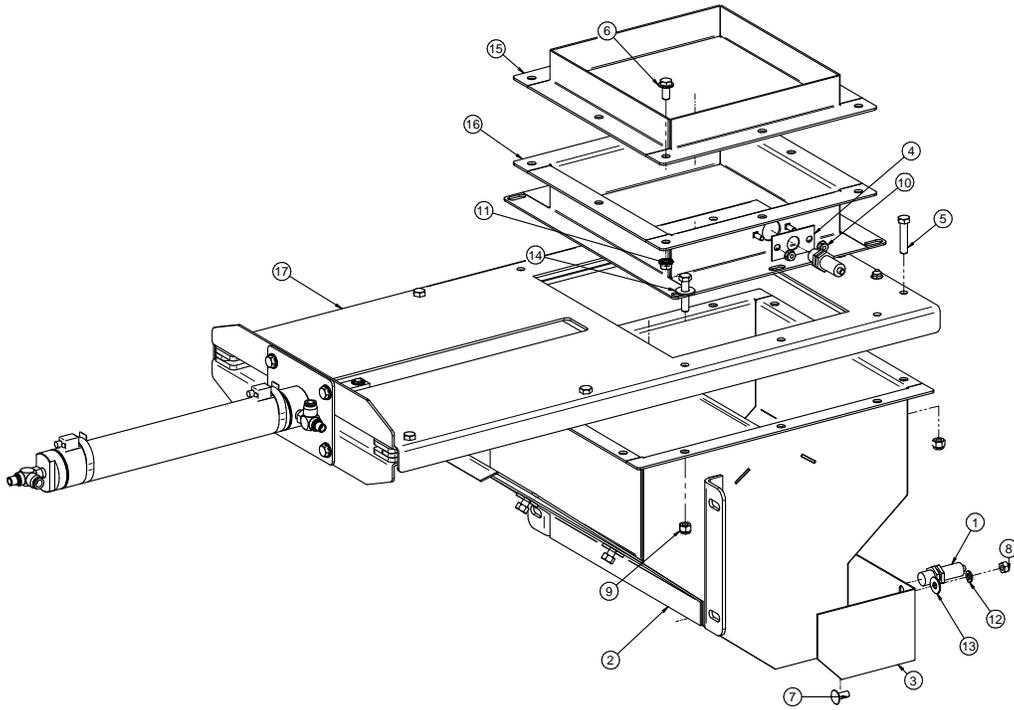
ASSEMBLY WEIGHT BELT CTHC (13-04-0260 REV B1)

PART #		13-05-0260 REV B1		
Item #	Part #	Description	Qty	See Page
1	02-02-0049	FLTR EXHAUST BRZ .125 NPT	1	
2	02-16-0044	FTTG PUSH 90 DEG .250OD X .250 NPT	1	
3	02-16-0046	FTTG PUSH 90 DEG .250 OD X .125 NPT	3	
4	03-17-0080	VLV SOL MAC 45A-AA1-DDAJ-1KJ	1	
5	05-03-1753	WDMT SHIPPING BRKT	4	
6	05-03-1776	WDMT WB MNT FRAME	1	
7	05-03-1906	WDMT LEG 1 CTHC WB FRM	2	
8	05-03-1907	WDMT LEG 2 CTHC WB FRM	2	
9	05-10-4805	PLT WIND GAURD SIDE	2	
10	05-10-4806	PLT WIND GAURD END	1	
11	06-01-0018	BOLT .375-16 X 1.50 ZP GR5	4	
12	06-01-0054	BOLT .500-13 X 1.75 ZP GR5	16	
13	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	8	
14	06-01-0138	BOLT FLG .3125-18 X .750 ZP GR5	14	
15	06-02-0033	NUT KLOCK 6-32 ZP	2	
16	06-02-0034	NUT KLOCK 8-32 ZP	2	
17	06-02-0043	NUT NYL LOCK 10-24 ZP	2	
18	06-02-0052	NUT KLOCK 4-40 ZP	2	
19	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	20	
20	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	24	
21	06-06-0029	SCRW MACH 10-24 X .375 PHLP PHD ZP	2	
22	06-06-0047	SCRW MACH 8-32 X 2.00 PHLP RDHD ZP	2	
23	06-06-0074	SCRW MACH 6-32 X .500 PHLP RDHD SS	2	
24	06-06-0079	SCRW MACH 4-40 X1.25 PHLP PHD	2	
25	07-03-0011	REGL FLTR .250	1	
26	09-01-0043	ATWK LBL USC 22.00 X 5.75 PRO-CUT	1	
27	09-02-0011	ATWK LBL WARNING MOVING PART	2	
28	104C19	WDMT WB SUPP	1	
29	02-03-0051	TBG .250 OD NYL BLK	1	
30	02-03-0051	TBG .250 OD NYL BLK	1	
31	106B9C	PLT J-BOX MNT	1	
32	13-05-0515	ASSY WB METER GATE	1	25
33	13-05-0829	ASSY WEIGH BELT BASE HC LESS\MTR	1	28



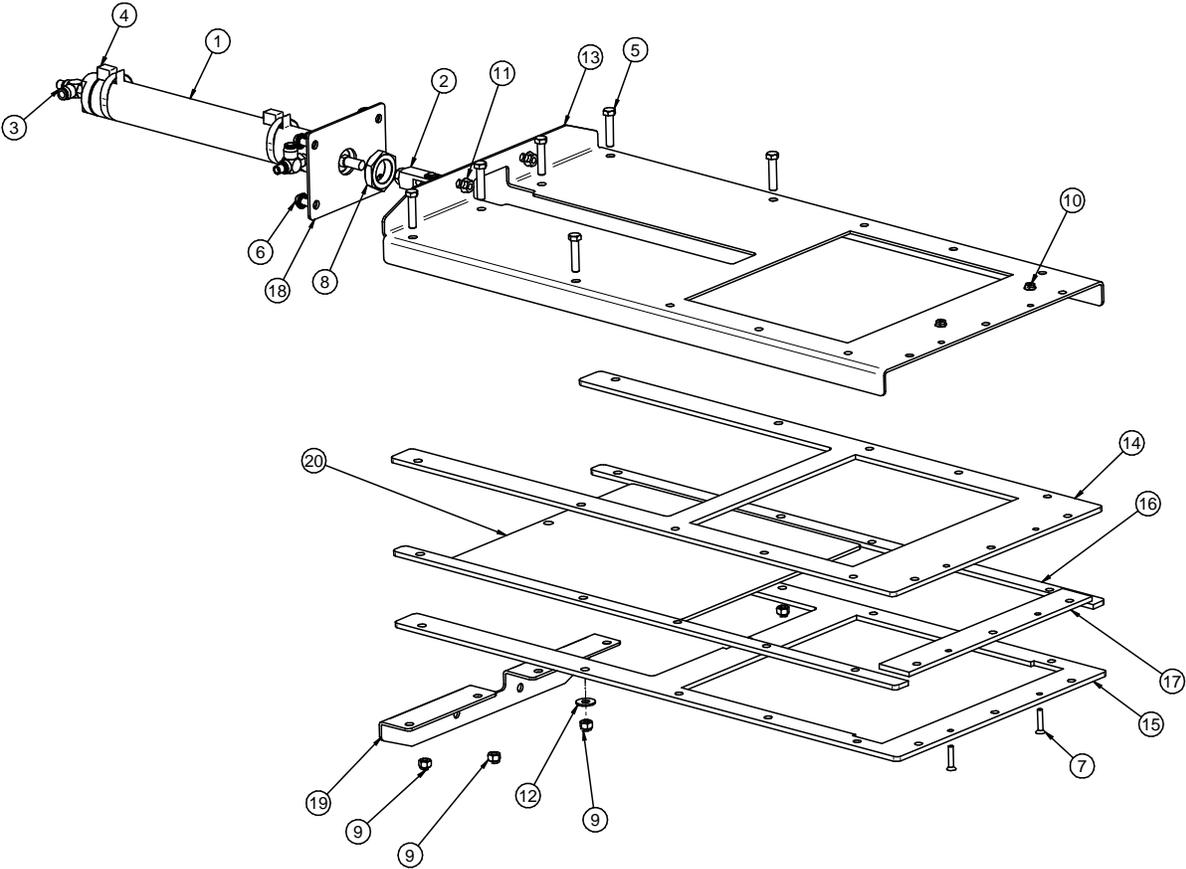
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ASSEMBLY WEIGHT BELT GATE CTHC (13-05-015 REV B2)



PART #		13-05-0515 REV B2		
Item #	Part #	Description	Qty	See Page
1	03-10-0147	SENS PROX 24VDC AB QC 875CPN8NP18P3	2	
2	05-07-1041	ASSY SD LAD CS W GATE	1	
3	05-10-1917	PLT SEED LDDR ADJ OTLT	1	
4	05-10-3316	PLT SMW PROX SW MNT	1	
5	06-01-0019	BOLT .375-16 X 1.75 ZP GR5	9	
6	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	8	
7	06-01-0171	BOLT CRG .313-18X.750ZP SHORT NECK	2	
8	06-02-0002	NUT FULL .313-18 ZP GR5	2	
9	06-03-0003	NUT NYL LOCK .375-16 ZP GR5	9	
10	06-03-0013	NUT LOCK FLG .250-20 ZP GR5	2	
11	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	8	
12	06-04-0002	WSHR LOCK SPLT .313 ZP	2	
13	06-05-0003	WSHR FLAT .313 ZP	2	
14	06-05-0004	WSHR FLAT .375 ZP	6	
15	104C8D	WDMT HOPP ADPT	1	
16	105222	WDMT SLD GATE TRAN WB	1	
17	12-04-0041	SLIDE GATE	1	26

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ASSEMBLY SLIDE GATE (12-04-0041 REV A1)

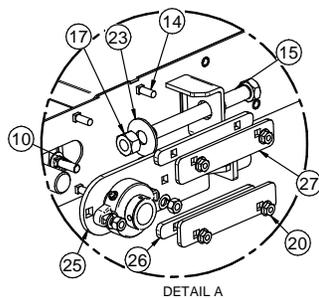
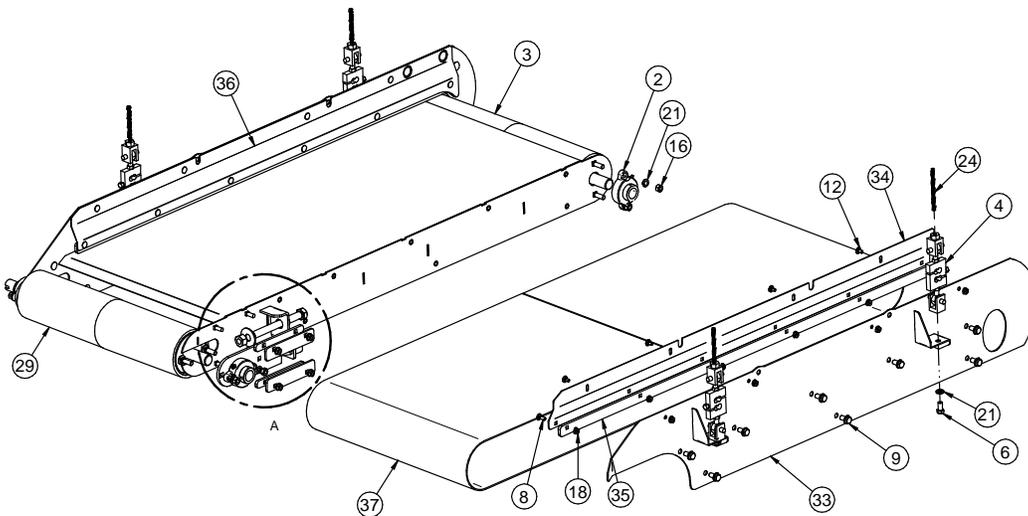
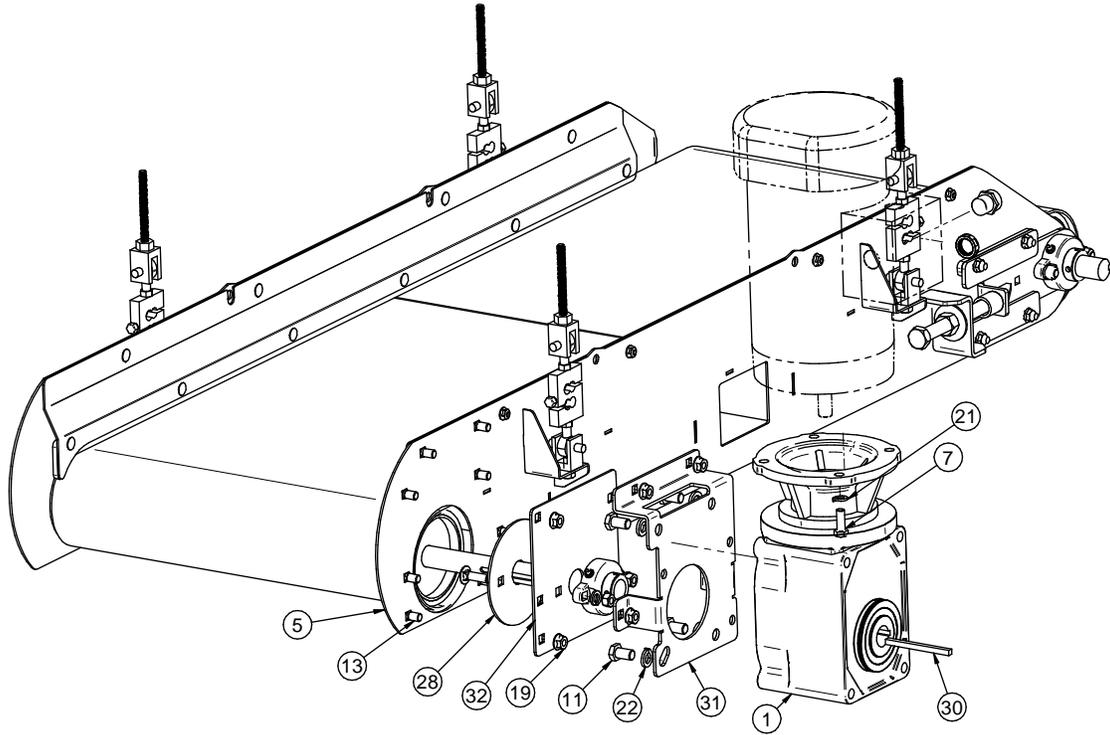


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ASSEMBLY SLIDE GATE (12-04-0041 REV A1)

PART #		12-04-0041 REV A1	
Item #	Part #	Description	Qty
1	03-17-0040	CYLINDER AIR 12" STROKE 2" BORE	1
2	03-17-0041	CLEVIS ASSY BIMBA D-8313-A	1
3	03-17-0068	VLV NEDL .250OD X .250NPT FQP44	2
4	03-17-0121	SW MAG REED MRS-.087-BLQ-31	2
5	06-01-0019	BOLT .375-16 X 1.75 ZP GR5	6
6	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	4
7	06-01-0155	SCRW MACH .250-20 X 1.25 SH FLHD	2
8	06-02-0064	NUT BIMBA D-508	1
9	06-03-0003	NUT NYL LOCK .375-16 ZP GR5	6
10	06-03-0013	NUT LOCK FLG .250-20 ZP GR5	2
11	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	4
12	06-05-0004	WSHR FLAT .375 ZP	2
13	105218	GATE FRAME	1
14	105219	GATE TOP SLIDE	1
15	10521A	GATE BTM SLIDE	1
16	10521B	GATE BTM SLIDE	2
17	10521C	GATE END SPCR	1
18	10521D	POWER PLATE	1
19	10521E	CYL MNT PLT	1
20	10521F	GATE SLIDE WB	1

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ASSEMBLY WEIGH BELT (13-05-0829 REV A1)



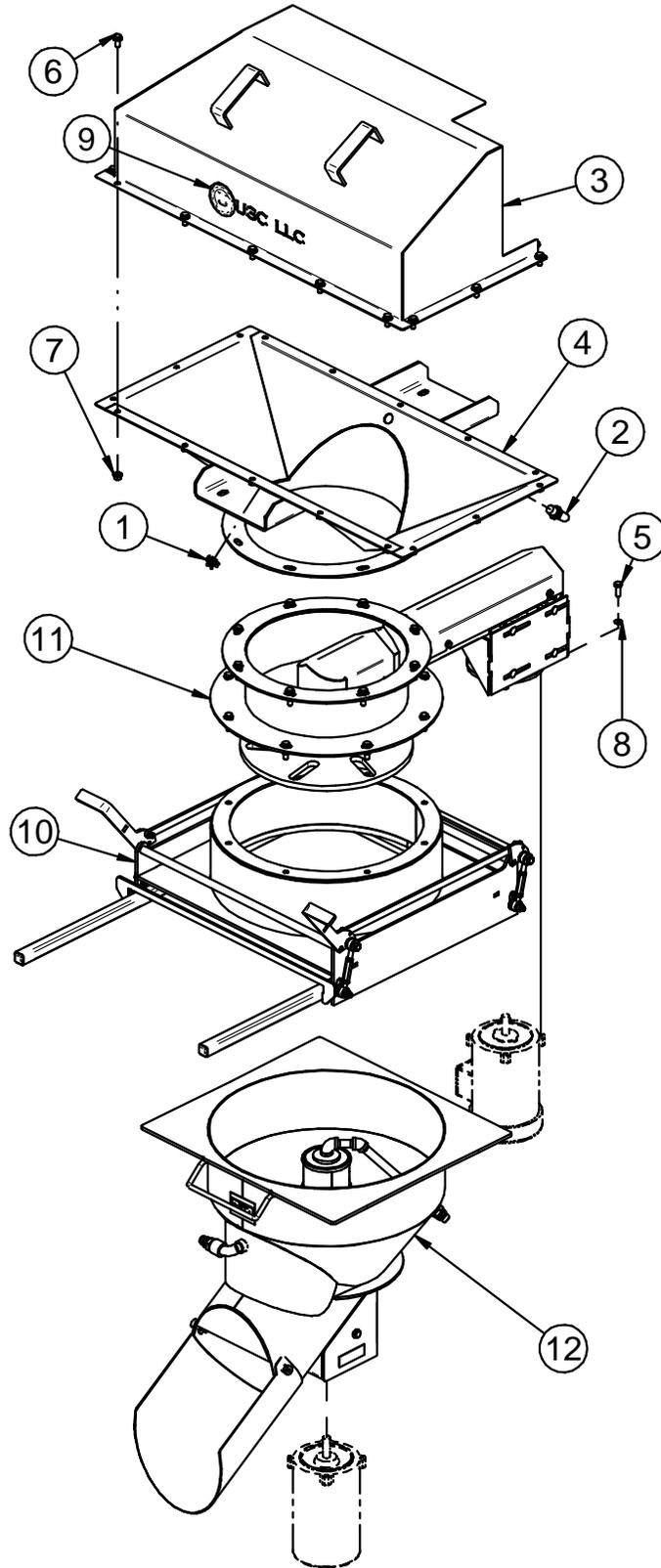
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ASSEMBLY WEIGH BELT (13-05-0829 REV A1)

PART #		13-05-0829 REV A1	
Item #	Part #	Description	Qty
1	01-01-0268	GBOX RA HB 15:1 56C 1IN BORE	1
2	01-03-0042	BRG FLG MNT 1.000ID 2BOLT ECNTRC	4
3	01-08-0098	PULLEY HEAD VULC S3000	1
4	03-19-0093	LDCL ITCM 4 CELL KIT 1000LB	1
5	05-03-1656	WDMT WEIGH BELT FRAME	1
6	06-01-0015	BOLT .375-16 X .750 ZP GR5	4
7	06-01-0016	BOLT .375-16 X 1.00 ZP GR5	4
8	06-01-0122	BOLT CRG .250-20 X .750 ZP GR5	12
9	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	8
10	06-01-0127	BOLT CRG .375-16 X 1.25 ZP GR5	8
11	06-01-0145	BOLT M12-1.75 X 20MM FTH	4
12	06-01-0150	BOLT CRG .250-20 X .500 ZP	8
13	06-01-0153	BOLT CRG .375-16X.750 ZP SHORT NECK	8
14	06-01-0223	BOLT CRG .313-18 X 1.00 ZP GR5	8
15	06-01-0269	BOLT .625-11 X 6.00 ZP GR5 FTH	2
16	06-02-0003	NUT FULL .375-16 ZP GR5	8
17	06-02-0005	NUT FULL .625-11 ZP GR5	4
18	06-03-0013	NUT LOCK FLG .250-20 ZP GR5	20
19	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	8
20	06-03-0019	NUT LOCK FLG .313-18 ZP GR5	8
21	06-04-0003	WSHR LOCK SPLT .375 ZP	16
22	06-04-0004	WSHR LOCK SPLT .500 ZP	4
23	06-05-0006	WSHR FLAT .625 ZP	4
24	06-14-0023	STUD .375-16 ZP X 4 IN LG ZP	4
25	10418D	WDMT TAKE UP WEIGH BELT	2
26	10418E	PLT TAKE UP PLT SPCR	4
27	10418F	PLT TAKE UP CLMP	4
28	104195	PLT PLY SPCR	1
29	104245	TAIL PULLEY WEIGH BELT	1
30	10425D	KEY	1
31	104C02	PLT MTR MNT WEIGH BELT	1
32	104C03	PLT BRG MNT	1
33	104C06	WDMT WEIGH BELT SIDE	1
34	105124	WEIGH BELT SKIRT RH	1
35	105125	WEIGH BELT SEAL	2
36	105126	WEIGH BELT SKIRT LH	1
37	11-02-0163	BELT CNVR WEIGH BELT	1



ASSEMBLY ATOMIZER CTHC(13-04-0259 REV A1)

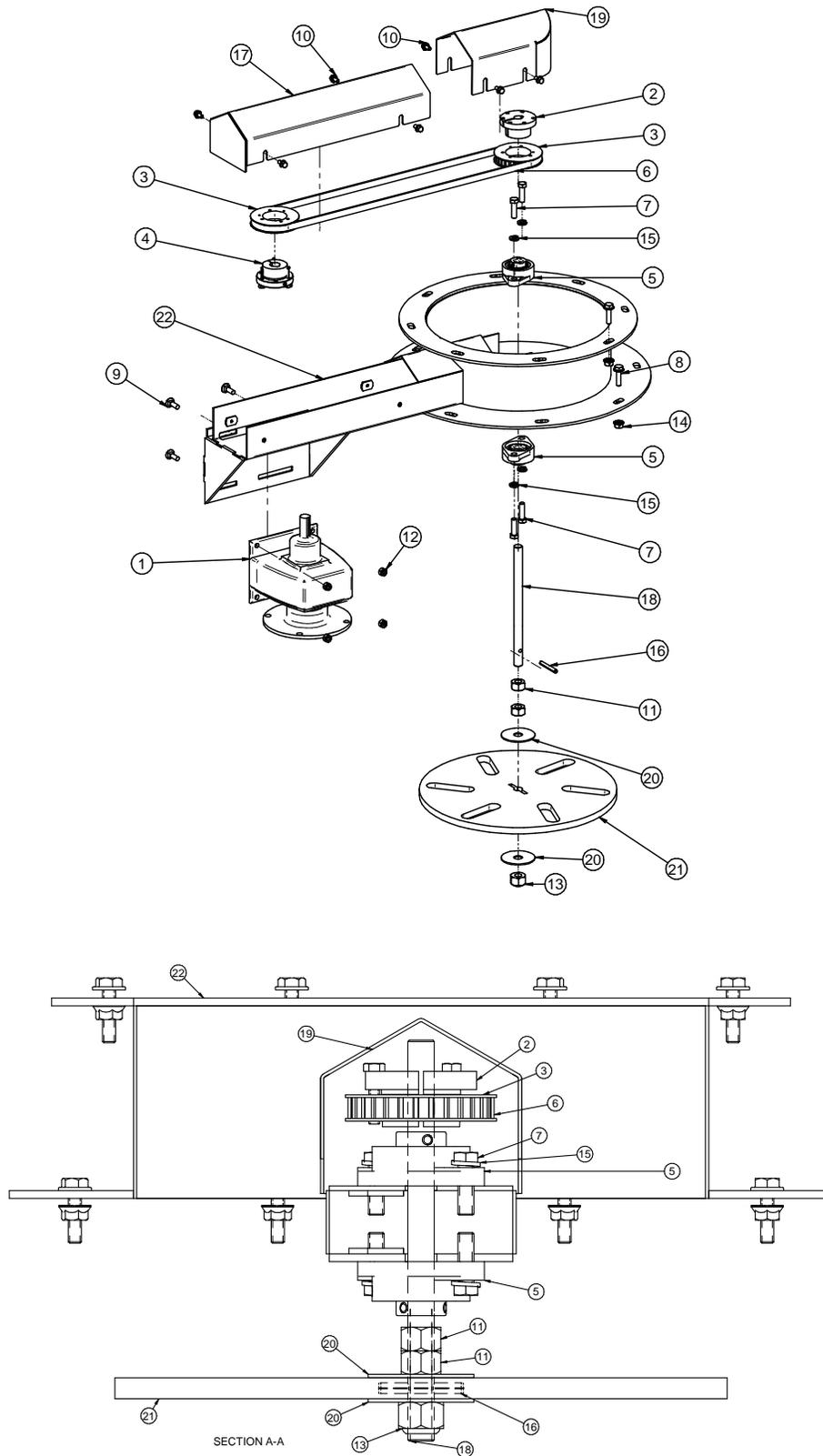


CTHC 3000 SEED TREATER

ASSEMBLY ATOMIZER CTHC(13-04-0259 REV A1)

PART #		13-04-0259 REV A1		
Item #	Part #	Description	Qty	See Page
1	03-08-0130	PLUG STEEL 22 MM	1	
2	03-10-0147	SENS PROX 24VDC AB QC 875CPN8NP18P3	1	
3	05-07-0961	WDMT WB TRTR HOOD LPV3000	1	
4	05-07-0986	WDMT WB CONE CTHC 3000	1	
5	06-01-0016	BOLT .375-16 X 1.00 ZP GR5	8	
6	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	16	
7	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	16	
8	06-04-0003	WSHR LOCK SPLT .375 ZP	8	
9	09-01-0042	ATWK LBL USC 11.50 X 3.00 PRO-CUT	1	
10	18-01-0430	ASSY FLOW CHMBR LPV3000	1	34
11	18-01-0432	ASSY NBLZR LPV3000	1	32
12	18-01-0462	ASSY ATMZR CTHC 3000	1	36

CTHC 3000 SEED TREATER
ASSEMBLY NEBULIZER (18-01-0432 REV A2)

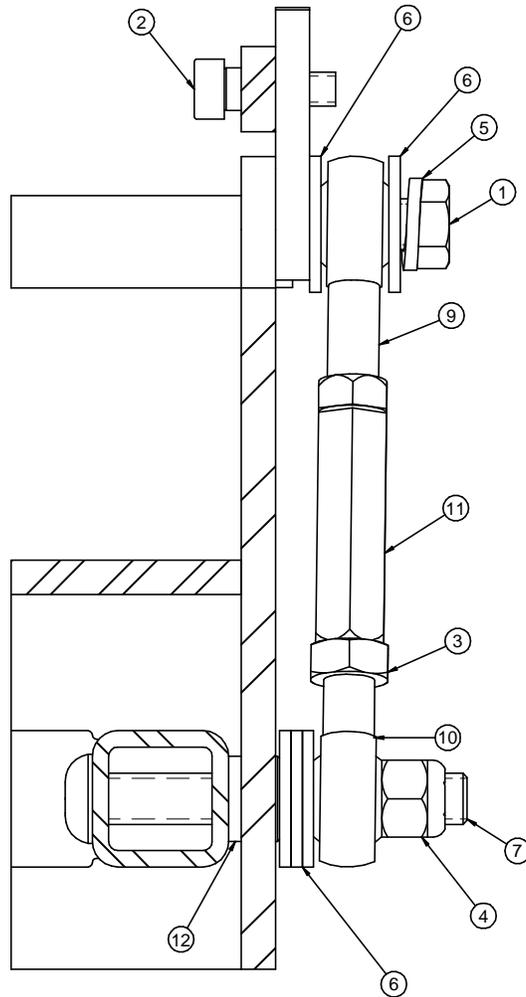
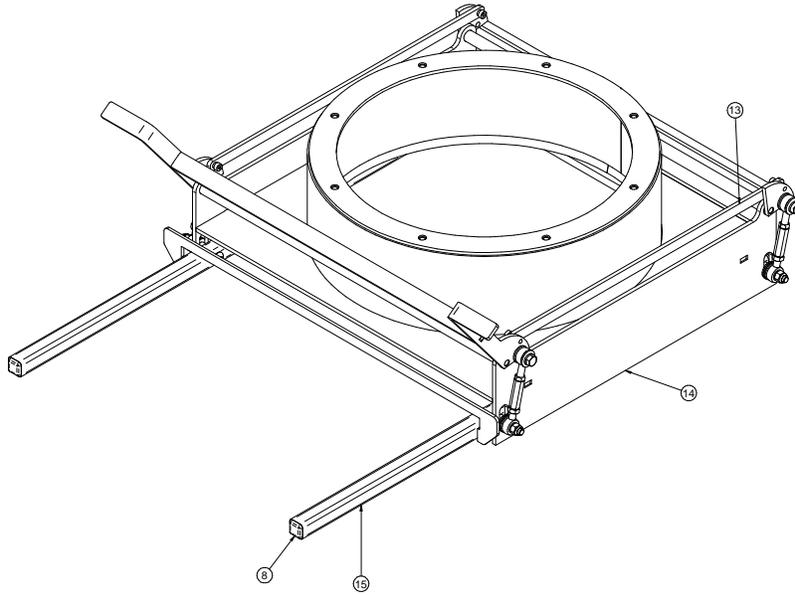


CTHC 3000 SEED TREATER

ASSEMBLY NEBULIZER (18-01-0432 REV A2)

PART #		18-01-0432 REV A2	
Item #	Part #	Description	Qty
1	01-01-0029	GBOX IL CBN-3012-S-V6-18-U-56C	1
2	01-02-0019	BUSH 0.625IN BORE TYPE SH	1
3	01-02-0025	PLLY GBLT 28T L050 SH	2
4	01-02-0136	BUSH 0.75 BORE TYPE SH	1
5	01-03-0002	BRG FLG MNT .625ID 3.875 BASE	2
6	01-04-0027	GBLT 540L050	1
7	06-01-0053	BOLT .375-16 X 1.25 ZP GR5	4
8	06-01-0189	BOLT FLG .375-16 X 1.250 ZP GR5	16
9	06-01-0223	BOLT CRG .313-18 X 1.00 ZP GR5	4
10	06-01-0299	BOLT FLG .250-20 X .500 ZP GR5	8
11	06-02-0005	NUT FULL .625-11 ZP GR5	2
12	06-03-0002	NUT NYL LOCK .313-18 ZP GR5	4
13	06-03-0005	NUT NYL LOCK .625-11 ZP	1
14	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	16
15	06-04-0003	WSHR LOCK SPLT .375 ZP	4
16	06-09-0065	PIN SPG .250 X 2.00 CS PLAIN	1
17	104E3B	WDMT GRD BELT	1
18	1055B4	SHFT NEBULIZER	1
19	105663	COVER 1	1
20	105665	WSHR .625 X 205 SS 14 GA	2
21	105A1E	DISK NEBULIZER	1
22	18-01-0433	WDMT MTR SUPT NBLZR LPV3000	1

CTHC 3000 SEED TREATER
ASSEMBLY FLOW CHAMBER (18-01-0430 REV A0)



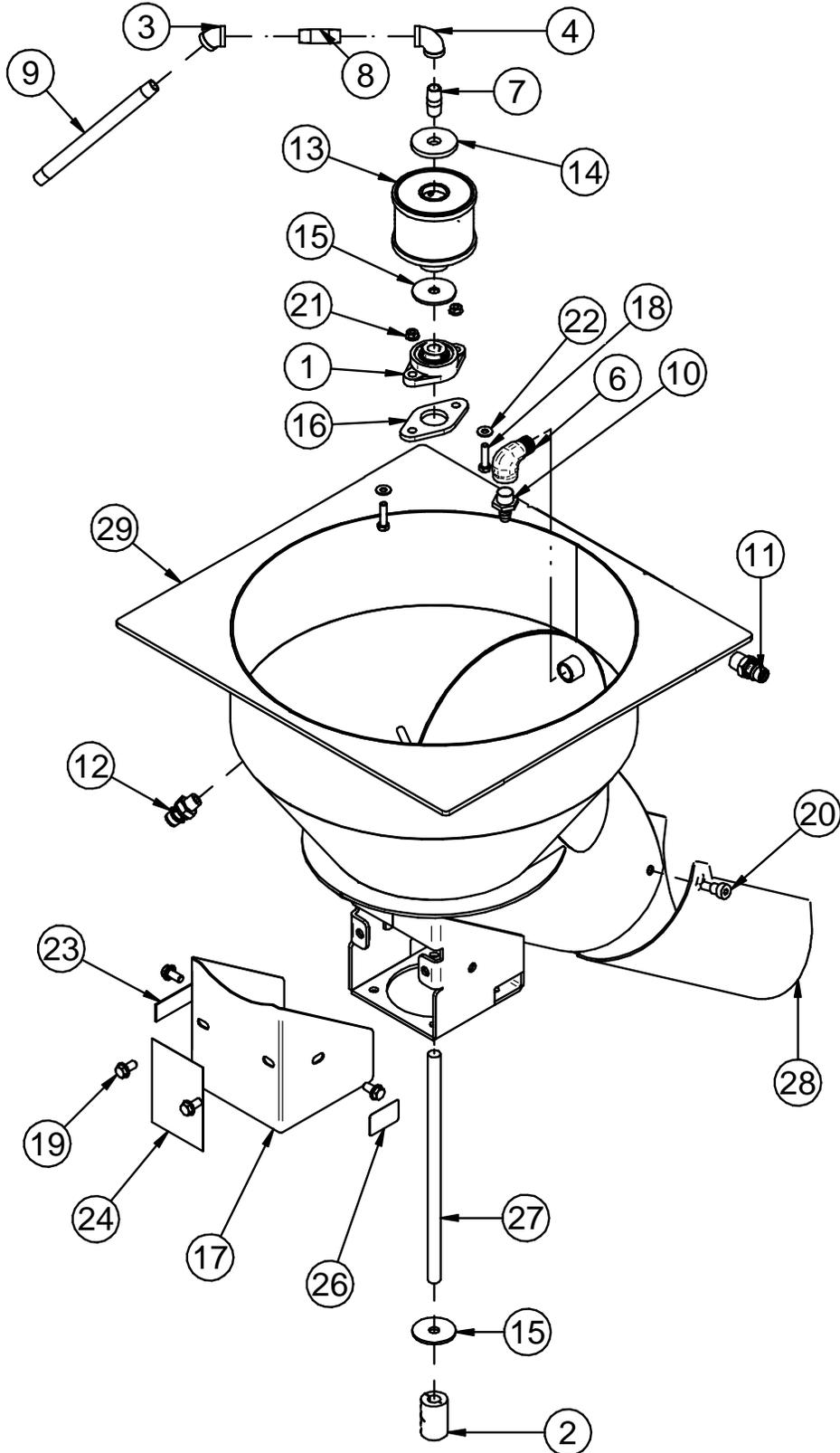
CTHC 3000 SEED TREATER

ASSEMBLY FLOW CHAMBER (18-01-0430 REV A0)

PART #		18-01-0430 REV A0	
Item #	Part #	Description	Qty
1	06-01-0016	BOLT .375-16 X 1.00 ZP GR5	4
2	06-01-0081	BOLT SHLD .313SHX.250-20X.375 GR5	4
3	06-02-0035	NUT JAM .375-24 ZP GR5	4
4	06-03-0003	NUT NYL LOCK .375-16 ZP GR5	4
5	06-04-0003	WSHR LOCK SPLT .375 ZP	4
6	06-05-0004	WSHR FLAT .375 ZP	20
7	06-06-0087	SCRW BTN SCKT HD .375-16X2.75 ZP	4
8	06-10-0027	PLUG POLYE RIBBED 1 X 1 X 10GA TBG	2
9	06-12-0002	REND .375-24 BALL LH	4
10	06-12-0003	REND .375-24 BALL RH	4
11	06-12-0006	ROD CTNG .375-24 X 2.00 LH RH FM	4
12	06-12-0007	BUSH DRILL.375ID X .625OD X .375	4
13	1059CB	BAR ECNTRC CONNECTING LPV3000 CS	2
14	18-01-0428	WDMT FLOW CHMBR LPV3000 CS	1
15	18-01-0429	WDMT MAIN CHMBR SUPP BRKT LPV3000 S	1

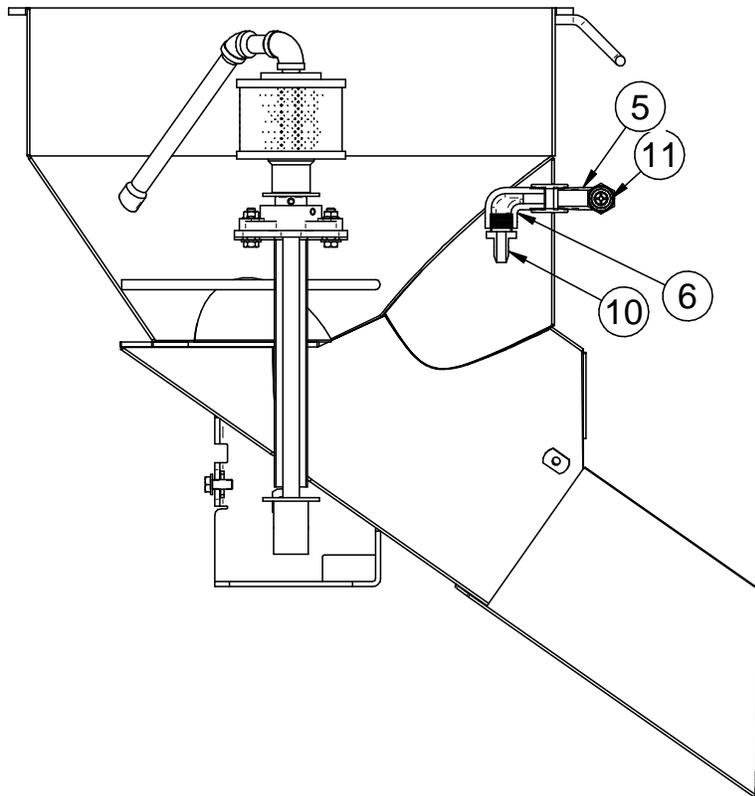
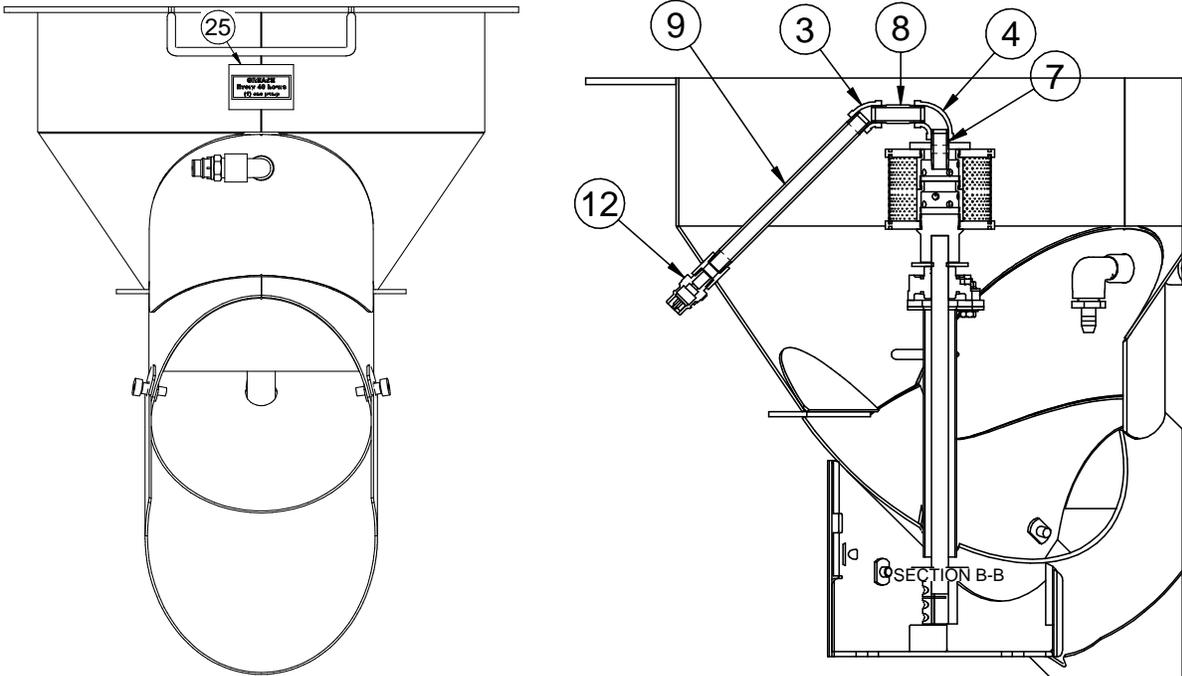
CTHC 3000 SEED TREATER

ASSEMBLY ATOMIZER CTHC (18-01-0462 REV A2)



CTHC 3000 SEED TREATER

ASSEMBLY ATOMIZER CTHC (18-01-0462 REV A2)



SECTION A-A

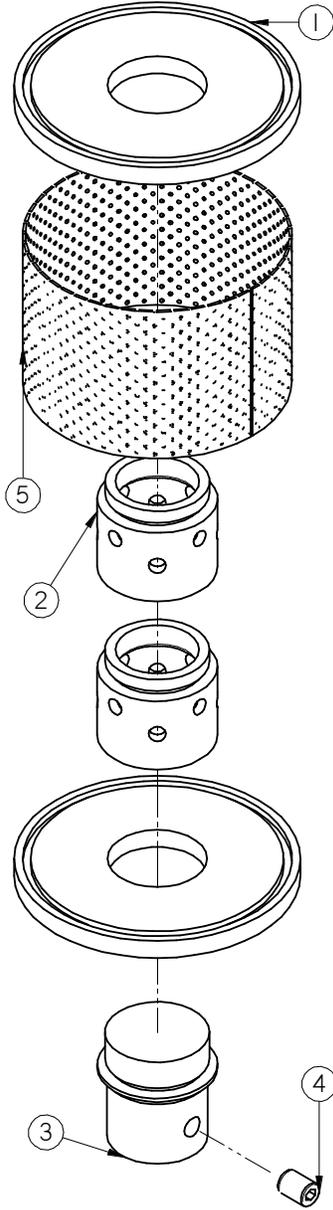
CTHC 3000 SEED TREATER

ASSEMBLY ATOMIZER CTHC (18-01-0462 REV A2)

PART #		18-01-0462 REV A2	
Item #	Part #	Description	Qty
1	01-03-0002	BRG FLG MNT .625ID 3.875 BASE	1
2	01-07-0027	CPLG CLPN .625 X .625 SPLT CS	1
3	02-06-0007	FTTG 45 DEG .375NPT SS	1
4	02-06-0008	FTTG 90 DEG .375NPT FM SS	1
5	02-06-0017	FTTG 90 DEG STRT .500NPT PPE BLK	1
6	02-06-0020	FTTG 90 DEG STRT.500NPTX .500NPT SS	1
7	02-07-0002	FTTG NIP .375 NPT X 1.50 TBE SS	1
8	02-07-0003	FTTG NIP .375 NPT X 2.00 TBE SS	1
9	02-07-0022	FTTG NIP .375 NPT X 8.00 TBE SS	1
10	02-08-0007	FTTG STGHT .500HB X .500NPT ML NYL	1
11	02-15-0014	FTTG CPLG .500 NPT QCK DISC INSERT	1
12	02-15-0037	FTTG CPLG .375 NPT QCK DISC INSERT	1
13	04-01-0033	LP4000 ATMZR	1
14	05-10-0360	DISC STD ATMZR HEAD CVR	1
15	05-10-0805	DISC ATMZR MTR	2
16	05-10-2462	SEAL RBBR .625 FLG BRG	1
17	05-10-4029	GRD ATMZR MTR LPX SS	1
18	06-01-0102	BOLT .313-18 X 1.25 ZP GR5	2
19	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	4
20	06-01-0304	BOLT SHLD .500SHX.375-16X.500 SS	2
21	06-03-0019	NUT LOCK FLG .313-18 ZP GR5	2
22	06-05-0001	WSHR FLAT .250 ZP	2
23	09-01-0107	LBL ATWK PATENT DECAL ROT ATOM	1
24	09-02-0002	ATWK LBL DANGER GRD	1
25	09-02-0004	ATWK LBL GRS 40HRS	1
26	09-02-0013	ATWK LBL ROTATION ARROW	1
27	1059C4	SHAFT DRV ATMZR LPV3000	1
28	106AB5	CHUTE ATMZR EXT	1
29	18-01-0463	WDMT ATMZR CTHC 30000	1

CTHC 3000 SEED TREATER

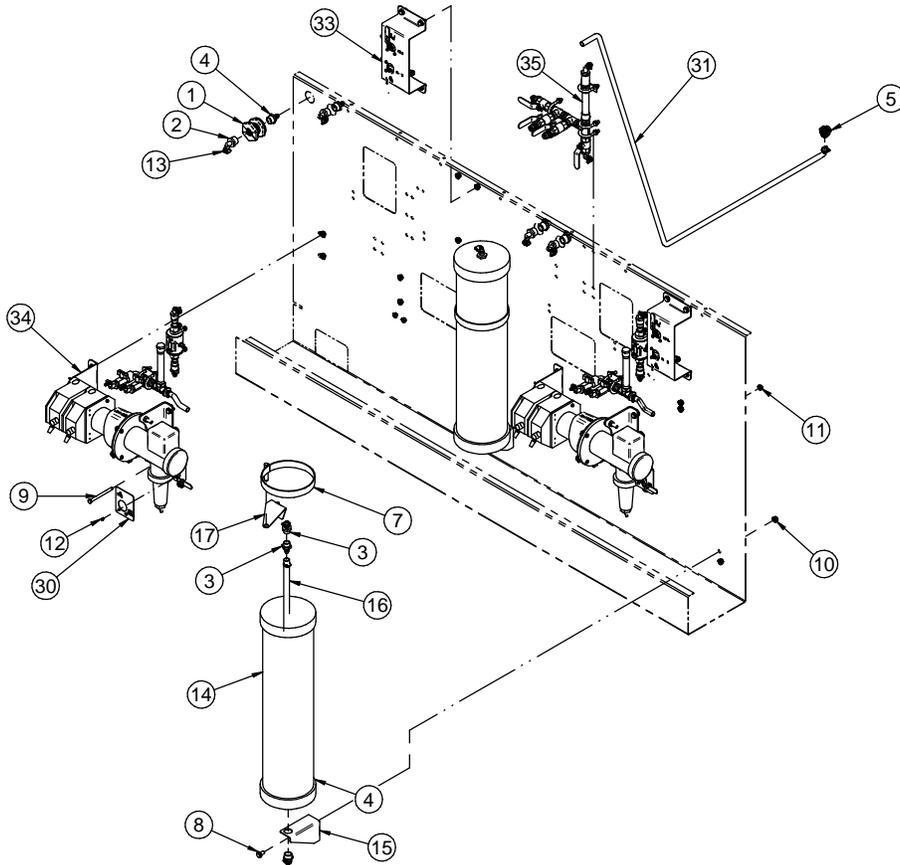
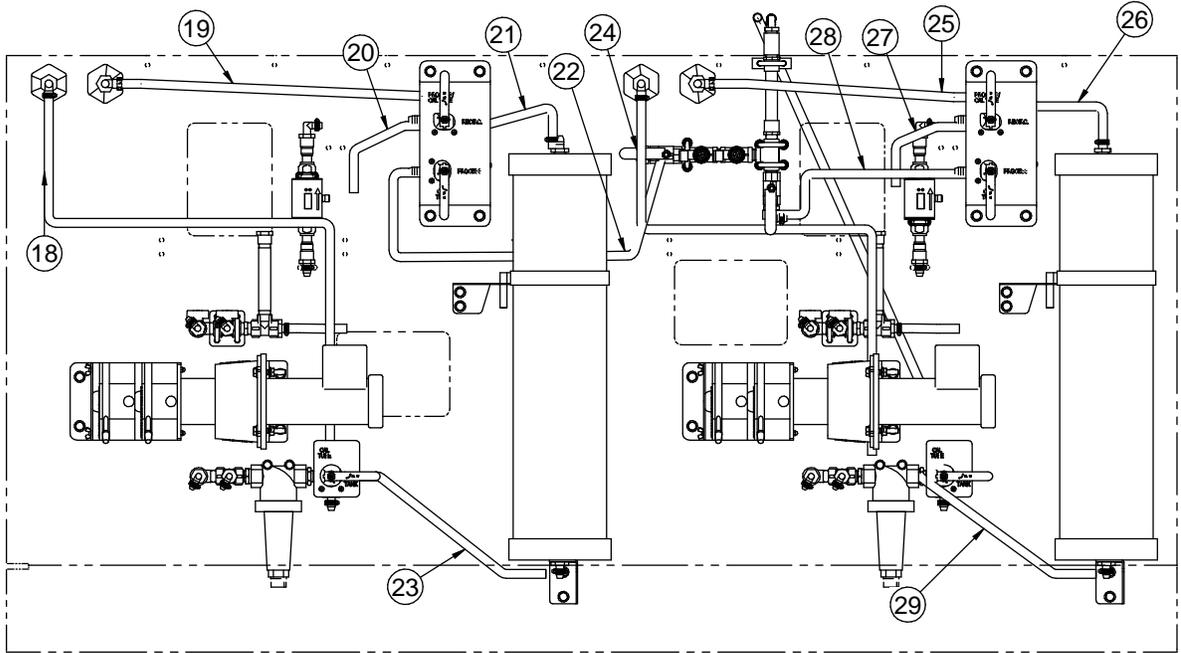
ASSEMBLY ATOMIZER CTHC (04-01-0033 REV A0)



PART #		04-01-0033 REV A0	
Item #	Part #	Description	Qty
1	05-11-0014	PLT ATMZR CAP	2
2	05-11-0015	SLV ATMZR SPCR	2
3	05-11-0016	SPUD BTM DRV	1
4	06-06-0003	SCRW SCKT .375-16 X .500 SS 18-8	1
5	13-05-0148	SCRN ATMZR COT 2.575 X 12.00	1

CTHC 3000 SEED TREATER

ASSEMBLY PLUMBING CTHC (13-05-0745 REV A3)



CTHC 3000 SEED TREATER

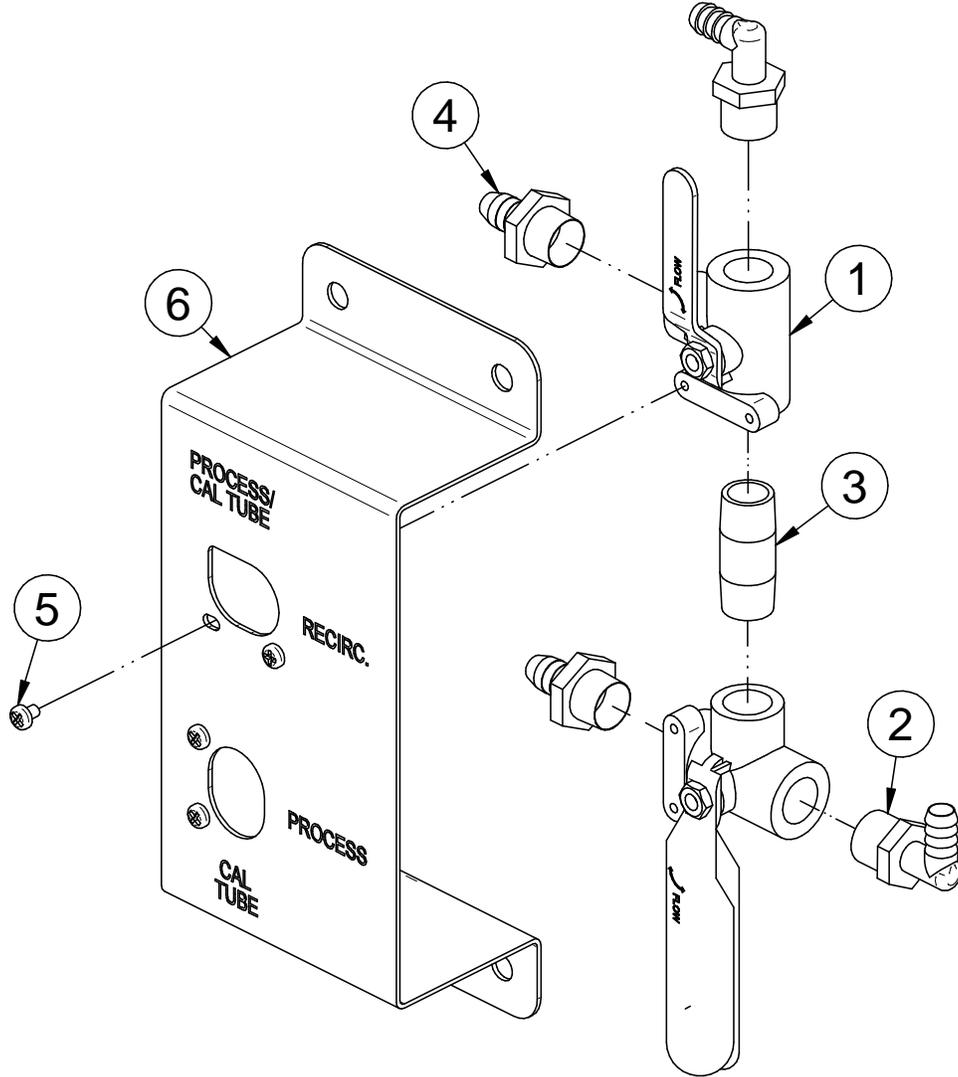
ASSEMBLY PLUMBING CTHC (13-05-0745 REV A3)

PART #		13-05-0745 REV A3		
Item #	Part #	Description	Qty	SEE PAGE
1	02-05-0045	FTTG .750 NPT DBL THD PPE BULKHEAD	4	
2	02-06-0011	FTTG 90 DEG .500HB X .750NPT ML NYL	6	
3	02-08-0007	FTTG STGHT .500HB X .500NPT ML NYL	4	
4	02-08-0008	FTTG STGHT .500HB X .750NPT ML NYL	4	
5	02-15-0013	FTTG CPLG .500 HB QCK DISC BODY	1	
6	04-03-0330	ASSY 2 PORT TOTE CONN CTHC	1	
7	05-08-0006	WDMT CALB TUBE TOP HOLDER	2	
8	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	24	
9	06-01-0248	BOLT .3125-18X4.00 HH G5 ZP	4	
10	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	24	
11	06-03-0019	NUT LOCK FLG .313-18 ZP GR5	4	
12	06-06-0008	SCRW MACH 10-24 X .250 PHLP PNHD	4	
13	06-07-0006	CLMP HOSE .500 TO .906 X .313W ZP	19	
14	07-02-0006	CYL CALB LOOSE TOP 10000ML	2	
15	1043D6	BRKT CAL TUBE MNT 340 OZ	2	
16	104422	TUBING RNT 0.5	2	
17	1062AF	PLT CAL TUBE SUPPORT	2	
18	1062B0	TUBING RNT 0.5	1	
19	1062B1	TUBING RNT 0.5	1	
20	1062B2	TUBING RNT 0.5	1	
21	1062B3	TUBING RNT 0.5	1	
22	1062B4	TUBING RNT 0.5	1	
23	1062B6	TUBING RNT 0.5	1	
24	1062B7	TUBING RNT 0.5	1	
25	1062B8	TUBING RNT 0.5	1	
26	1062B9	TUBING RNT 0.5	1	
27	1062BA	TUBING RNT 0.5	1	
28	1062BB	TUBING RNT 0.5	1	
29	1062BC	TUBING RNT 0.5	1	
30	1062BE	PLT VALVE LBL	2	
31	106355	TUBING RNT 0.5	1	
32	13-05-0454	HOSE MF .375 NPRN BLK - IP73 28IN	4	
33	13-05-0746	ASSY VAVLE STACK CTHC 3000	2	42
34	13-05-0747	ASSY PUMP STACK CTHC 3000	2	43
35	13-05-0748	ASSY STATIC MIXER CTHC 3000	1	45



CTHC 3000 SEED TREATER

ASSEMBLY VALVE STACK CTHC (13-05-0746 REV A1)



PART #		13-05-0746 REV A1	
Item #	Part #	Description	Qty
1	02-02-0007	VLV BALL .500 NPT 3WAY BRSS	2
2	02-06-0010	FTTG 90 DEG .500HB X .500NPT ML NYL	2
3	02-07-0010	FTTG NIP .500 NPT X 2.00 TBE SS	1
4	02-08-0007	FTTG STGHT .500HB X .500NPT ML NYL	2
5	06-06-0008	SCRW MACH 10-24 X .250 PHLP PNHD	4
6	1062AE	PLT VALVE MNT	1

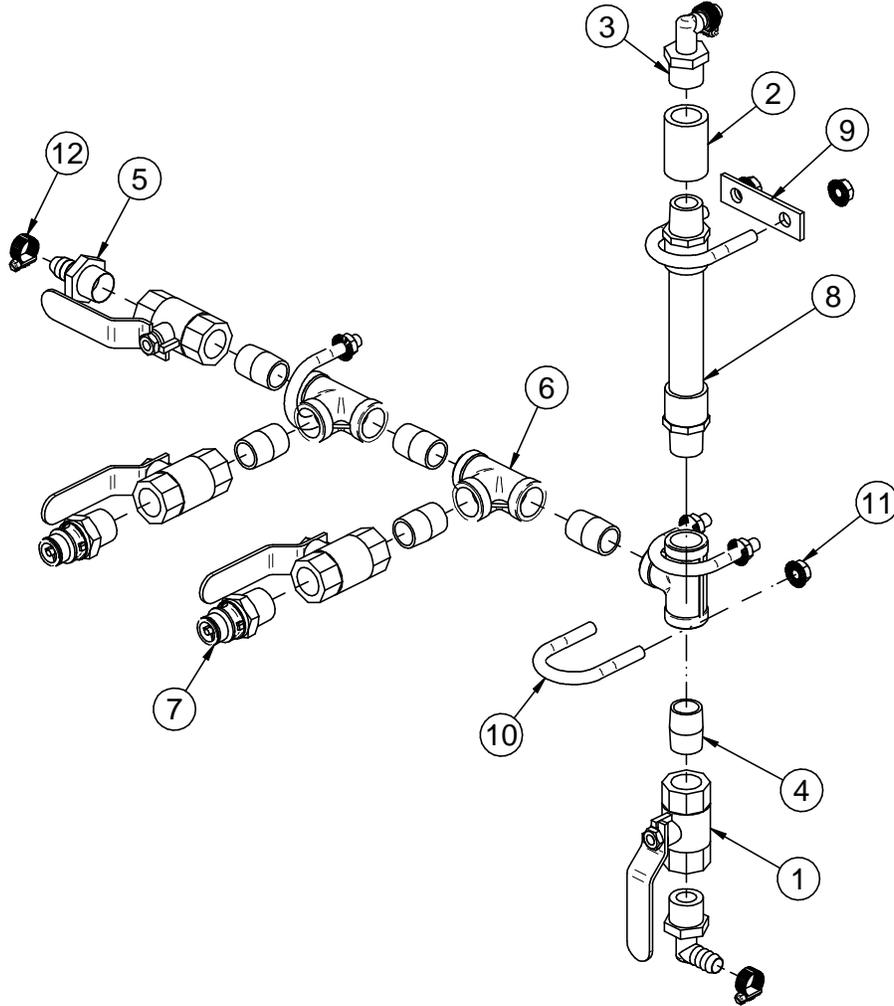
CTHC 3000 SEED TREATER

ASSEMBLY PUMP STACK CTHC (13-05-0747 REV A4)

PART #		13-05-0747 REV A4	
Item #	Part #	Description	Qty
1	01-01-0016	GBOX 56C FR 4.8:1 GR 77490-10	1
2	01-01-0160	MTR .25HP 2500 RPM 34 90VDC	1
3	02-01-0004	PUMP HEAD PRST MF IP200RPM 970-0000	2
4	02-01-0026	PUMP DUAL MF IP HARDWARE SS	1
5	02-02-0007	VLV BALL .500 NPT 3WAY BRSS	1
6	02-02-0127	VLV BALL 2WAY .5 FNPT X .5 MNPT	2
7	02-04-0008	FTTG BUSH .750NPT X .500NPT SS	2
8	02-05-0086	FTTG END CAP .500 NPT BP	1
9	02-06-0006	FTTG 90 DEG .375HB X .500NPT ML NYL	4
10	02-06-0017	FTTG 90 DEG STRT .500NPT PPE BLK	2
11	02-06-0040	FTTG 90 DEG .500HB X .500NPT FM NYL	1
12	02-07-0009	FTTG NIP .500 NPT X 1.75 TBE BLK PL	1
13	02-07-0054	FTTG NIP .500 NPT X 1.125 TBE G-PVC	2
14	02-07-0060	FTTG NIP .500 NPT X 6.00 TBE PVC	1
15	02-08-0007	FTTG STGHT .500HB X .500NPT ML NYL	3
16	02-08-0026	FTTG STGHT .500HB X .500NPT FM NYL	1
17	02-09-0005	FTTG TEE .500 NPT PPE	3
18	02-12-0011	FLTR TEE PPE .750 NPT 16 MESH BANJO	1
19	03-07-0106	CORD 3COND 18AWG BLDN 3089A 600V	16
20	03-08-0308	NUT NYLOC .500 NPT 8464	1
21	03-08-0324	CONN TRCK 3PIN MALE BS4131-0/9	1
22	03-08-0381	CONN CG HEYCO M3200 LTCG 1/2 NPT	1
23	03-18-0020	FTTG ADPTR G1/2 TO 1/2NPT ML IFM	1
24	03-18-0025	FLMT IFM EFECTOR SM6000 NO NEG FLO	1
25	06-01-0037	BOLT U .313-18 X 1.00 X .375 ZP GR5	2
26	06-01-0137	BOLT .375-16 X 2.00 ZP GR5 FTH	2
27	06-01-0199	BOLT U .250-20 X 0.75 X 2.25 ZP	2
28	06-03-0013	NUT LOCK FLG .250-20 ZP GR5	4
29	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	2
30	06-07-0005	CLMP HOSE .219 TO .625 X .313W ZP	7
31	06-07-0006	CLMP HOSE .500 TO .906 X .313W ZP	2
32	102214	BRKT 3HEAD MOTOR MNT PUMPSTD	1
33	105970	PLT TEE LOCATOR	1
34	105979	BRKT HV PUMPHEAD MNT	1
35	1062B5	TUBING RNT 0.5	1
36	13-05-0454	HOSE MF .375 NPRN BLK - IP73 28IN	2

CTHC 3000 SEED TREATER

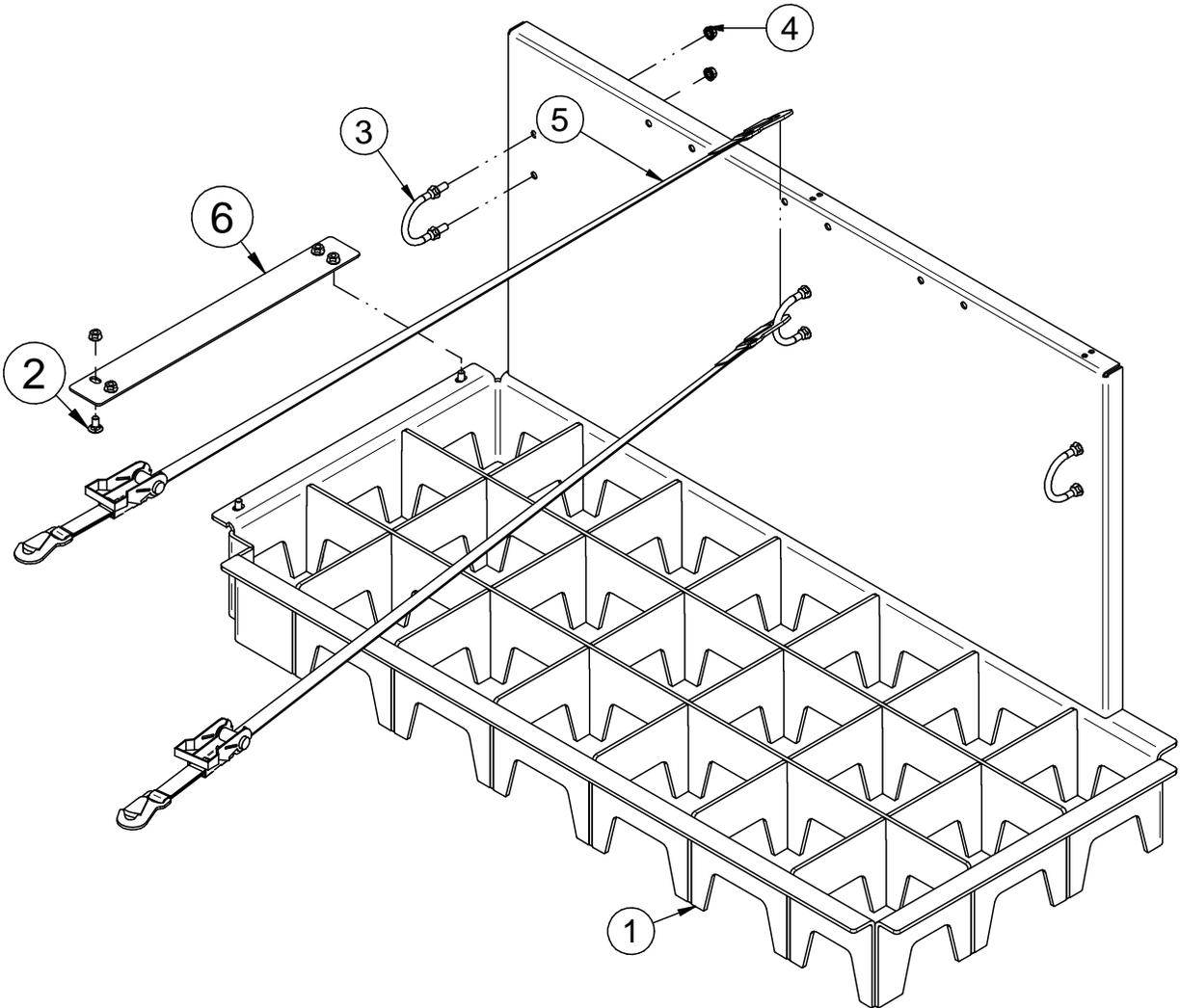
ASSEMBLY STATIC MIXER CTHC (13-05-0748 REV A1)



PART #		13-05-0748 REV A1	
Item #	Part #	Description	Qty
1	02-02-0006	VLV BALL .500 NPT 2WAY BRSS	4
2	02-05-0031	FTTG CPLG .500 NPT FM BP	1
3	02-06-0010	FTTG 90 DEG .500HB X .500NPT ML NYL	2
4	02-07-0007	FTTG NIP .500NPTX1.125 TBE SS CLOSE	6
5	02-08-0007	FTTG STGHT .500HB X .500NPT ML NYL	1
6	02-09-0003	FTTG TEE .500 NPT FM SS	3
7	02-15-0014	FTTG CPLG .500 NPT QCK DISC INSERT	2
8	04-03-0030	MXR IL PVC 6ELEMENT .500PIPE X 7.00	1
9	05-10-4277	SPCR STTC MXR MNT	1
10	06-01-0037	BOLT U .313-18 X 1.00 X .375 ZP GR5	4
11	06-03-0019	NUT LOCK FLG .313-18 ZP GR5	8
12	06-07-0005	CLMP HOSE .219 TO .625 X .313W ZP	3

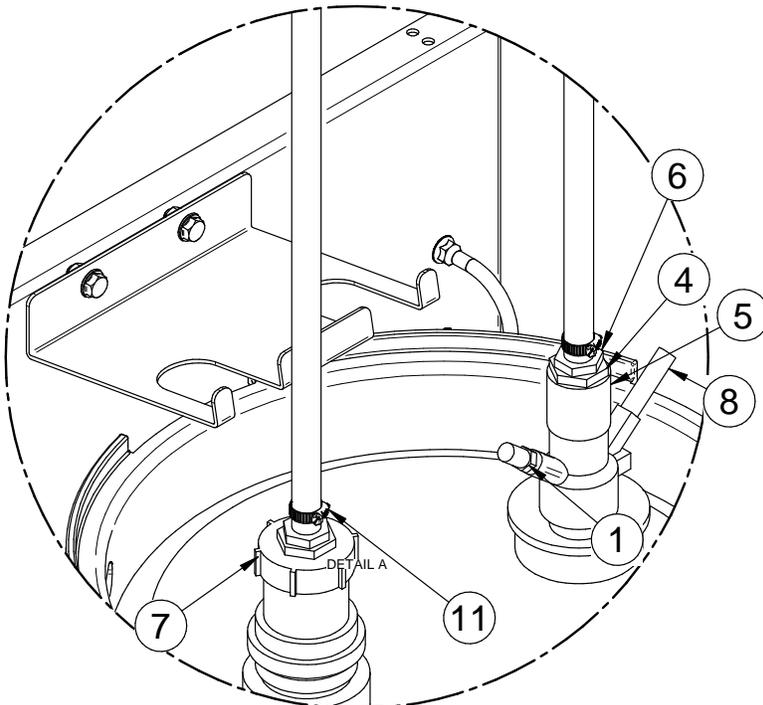
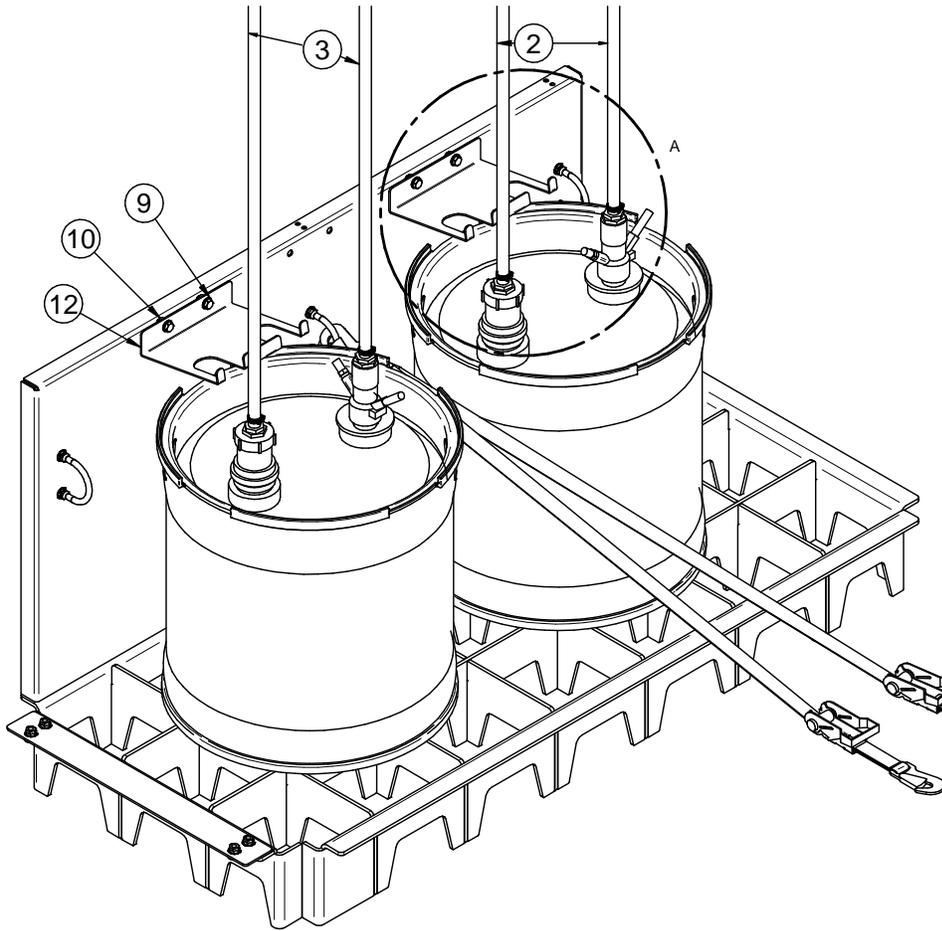
CTHC 3000 SEED TREATER

ASSEMBLY GRATE CTHC (13-04-0265 REV A3)



PART #		13-04-0265 REV A3	
Item #	Part #	Description	Qty
1	05-03-1779	WDMT GRATE CTHC 3000	1
2	06-01-0153	BOLT CRG .375-16X.750 ZP SHORT NECK	4
3	06-01-0287	BOLT U .375-16 X 2.50 X 3.125 ZP	3
4	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	16
5	08-09-0130	STRP RTCHT 1IN X 7FT BLUE	2
6	106B85	PLT ATTACH GRATE	1

ASSEMBLY 2 PORT TOTE CONNECTOR CTHC (04-03-0330 REV A2)

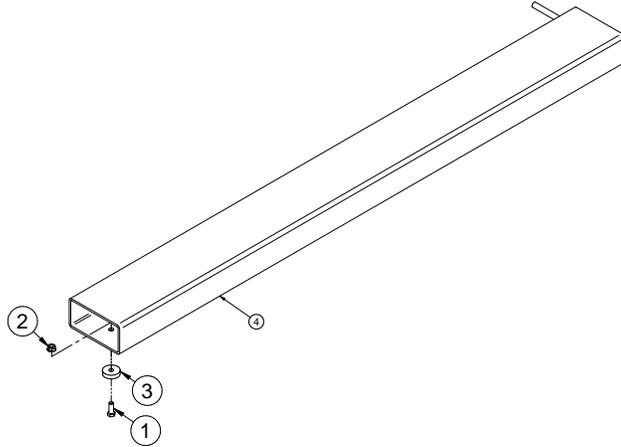


CTHC 3000 SEED TREATER

ASSEMBLY 2 PORT TOTE CONNECTOR CTHC (04-03-0330 REV A2)

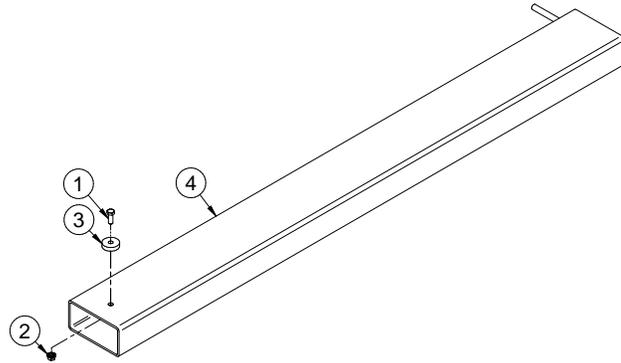
PART #		04--03-0330 REV A2	
Item #	Part #	Description	Qty
1	02-02-0050	FLTR EXHAUST BRZ .250 NPT ML	2
2	02-03-0005	HOSE RNT .500 CLEAR	8
3	02-03-0005	HOSE RNT .500 CLEAR	12
4	02-04-0007	FTTG BUSH 1.00NPT x .750NPT PPE	4
5	02-05-0026	FTTG CPLG 1.00 NPT FM 150PSI SS	2
6	02-08-0008	FTTG STGHT .500HB X .750NPT ML NYL	4
7	02-15-0005	FTTG CPLG 1.00 NPT FM PARKER POLY	2
8	02-15-0045	FTTG CPLG DRM FILL HD SS MICROMATIC	2
9	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	4
10	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	4
11	06-07-0006	CLMP HOSE .500 TO .906 X .313W ZP	4
12	102DB2	HOSE HNGR U TOTE	2

ASSEMBLY FORK EXTENSION RIGHT HAND CTHC (13-04-0262 REV A0)



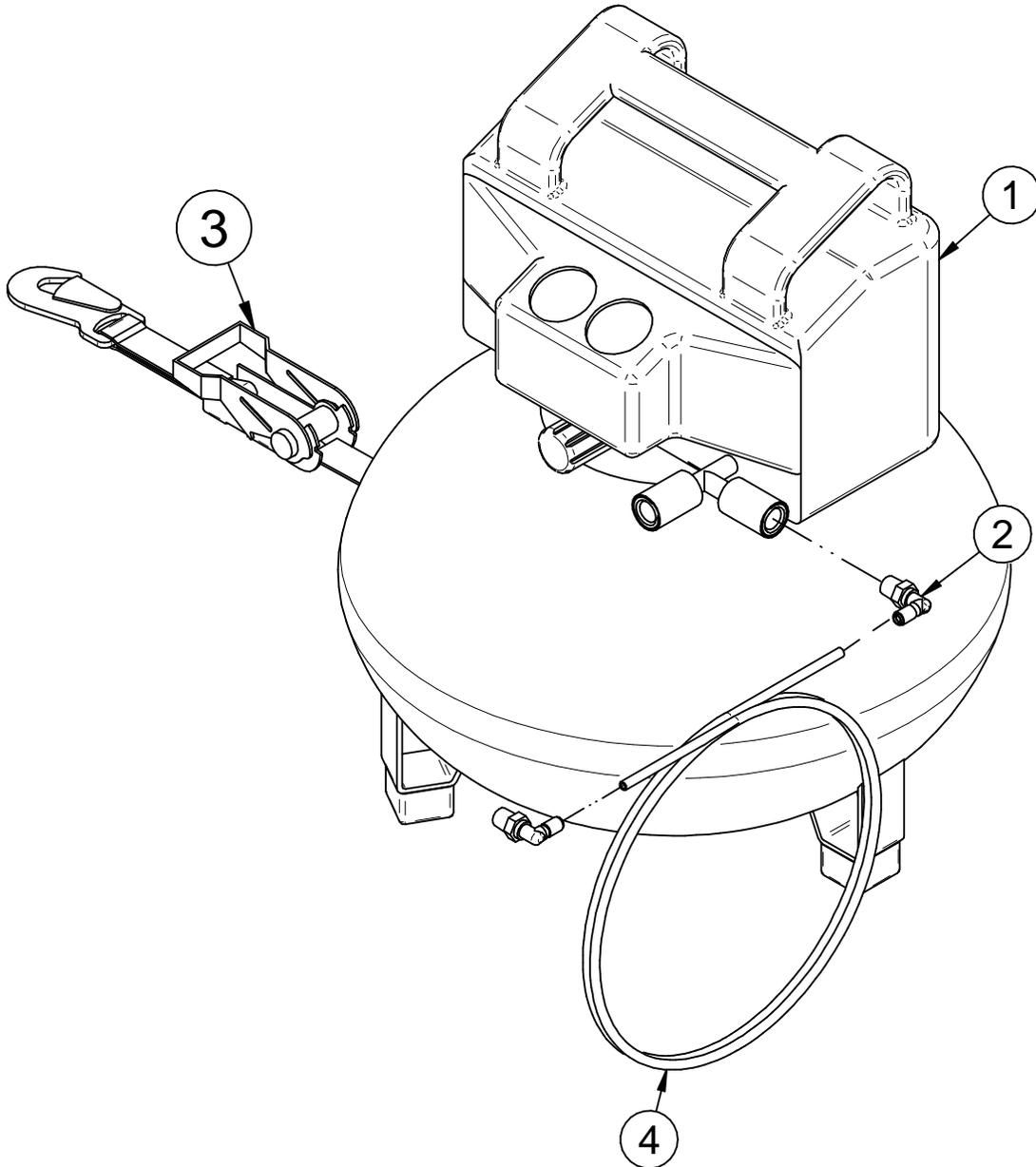
PART #		13-04-0262 REV A0	
Item #	Part #	Description	Qty
1	06-01-0016	BOLT .375-16 X 1.00 ZP GR5	1
2	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	1
3	1065AD	SPACER FORK STOP	1
4	18-01-0106	WDMT FORKLIFT PCKT EXT 6FT	1

ASSEMBLY FORK EXTENSION LEFT HAND CTHC (13-04-0263 REV A0)



PART #		13-04-0262 REV A0	
Item #	Part #	Description	Qty
1	06-01-0016	BOLT .375-16 X 1.00 ZP GR5	1
2	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	1
3	1065AD	SPACER FORK STOP	1
4	18-01-0106	WDMT FORKLIFT PCKT EXT 6FT	1

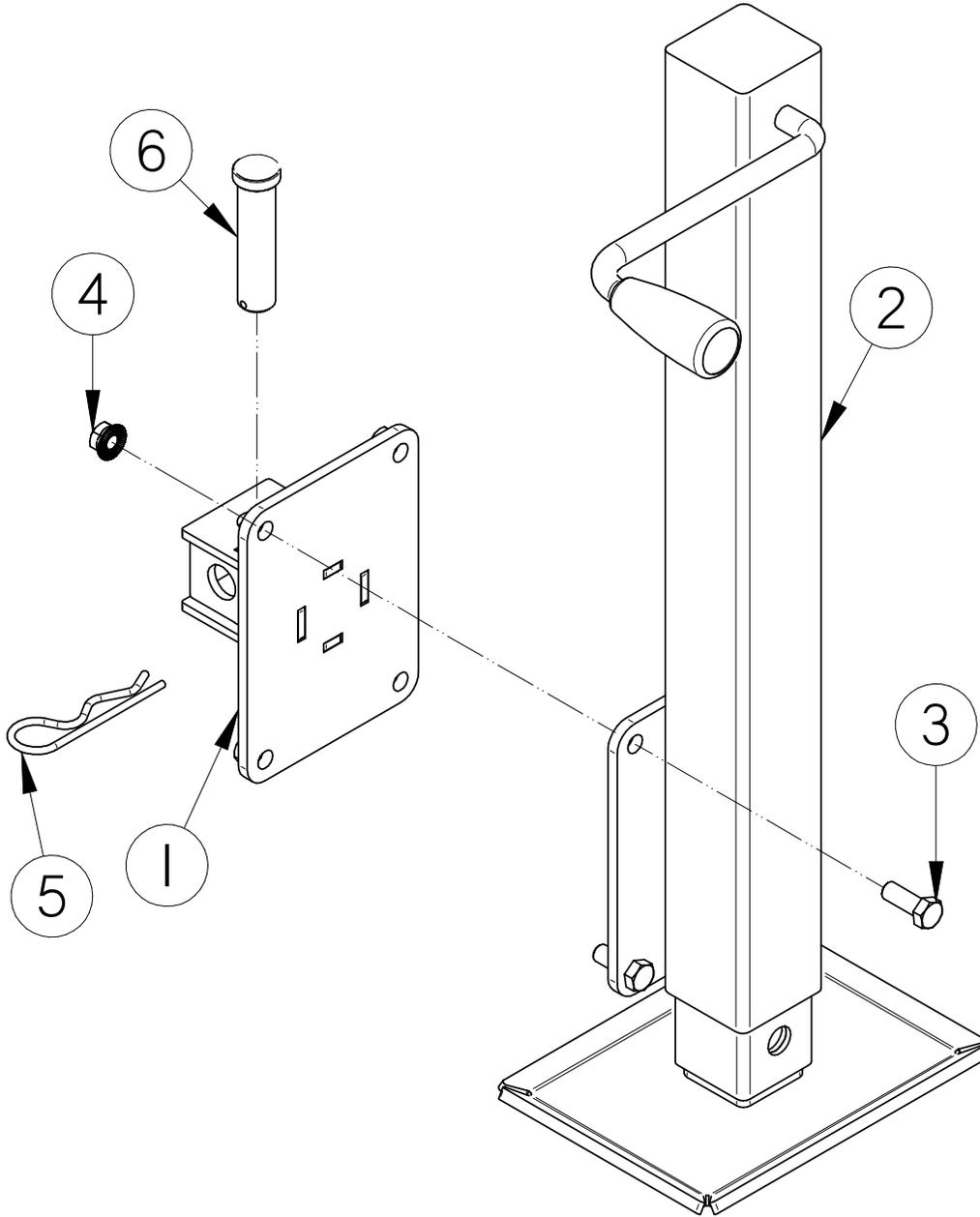
CTHC 3000 SEED TREATER
KIT AIR COMPRESSOR CTHC (13-04-0277 REV A2)



PART #		13-04-0277 REV A2	
Item #	Part #	Description	Qty
1	02-01-0056	CMPSR AIR 6 GAL 150 PSI	1
2	02-16-0044	FTTG PUSH 90 DEG .250OD X .250 NPT	2
3	08-09-0130	STRP RTCHT 1IN X 7FT BLUE	1
4	106B49	TBG .250 OD X 144 IN NYL BLK	1

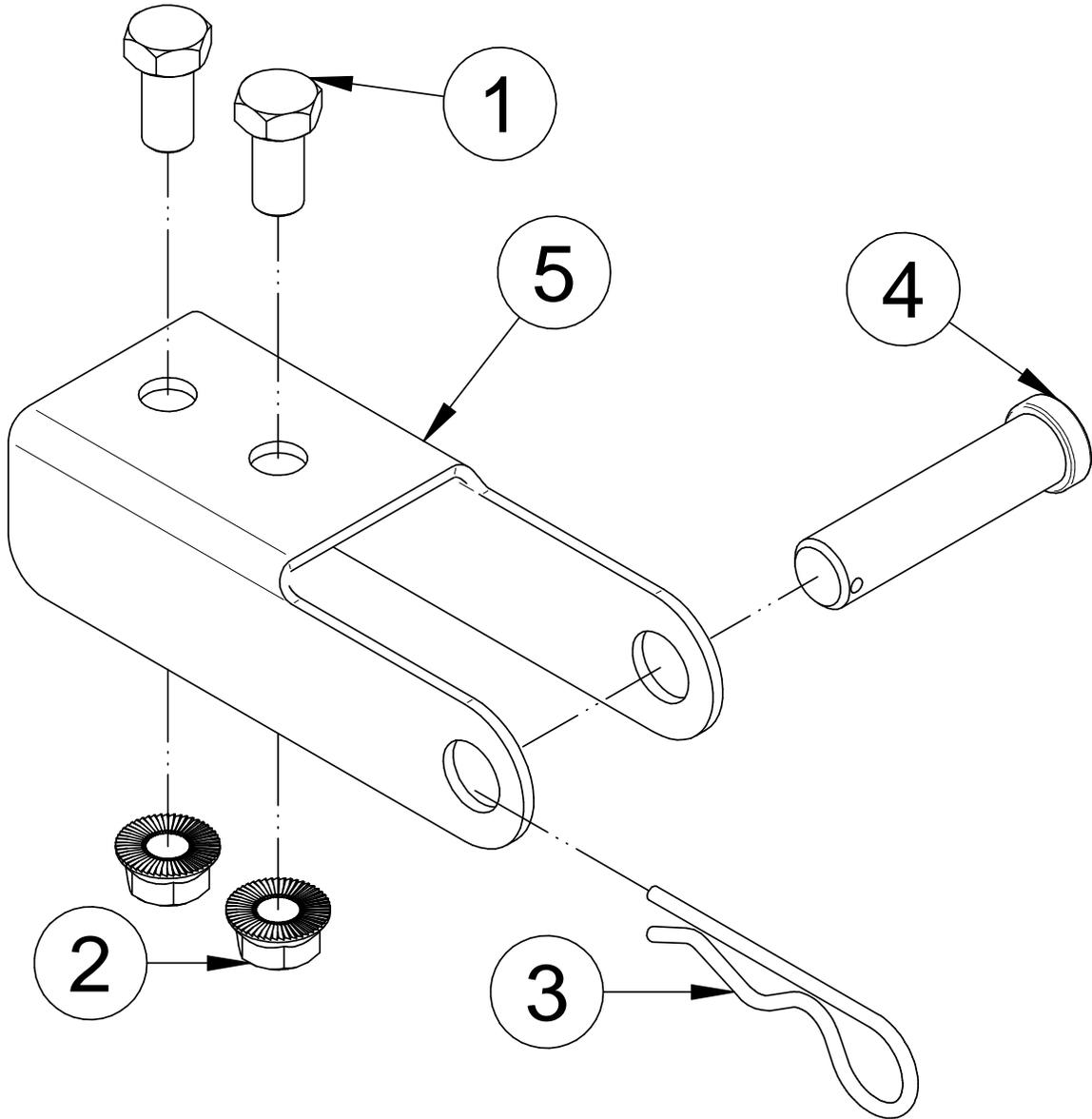
CTHC 3000 SEED TREATER

ASSEMBLY JACKSTAND CTHC (13-04-0264 REV B0)



PART #		13-04-0264 REV B0	
Item #	Part #	Description	Qty
1	05-03-1887	WDMT JKSTD MNT	1
2	05-03-1888	WDMT JACK W/PLT	1
3	06-01-0016	BOLT .375-16 X 1.00 ZP GR5	4
4	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	4
5	06-09-0002	PIN CLIP HITCH 3.063 SIZE 9 ZP	1
6	06-09-0095	PIN CLVS .750 X 3.00 ZP	1

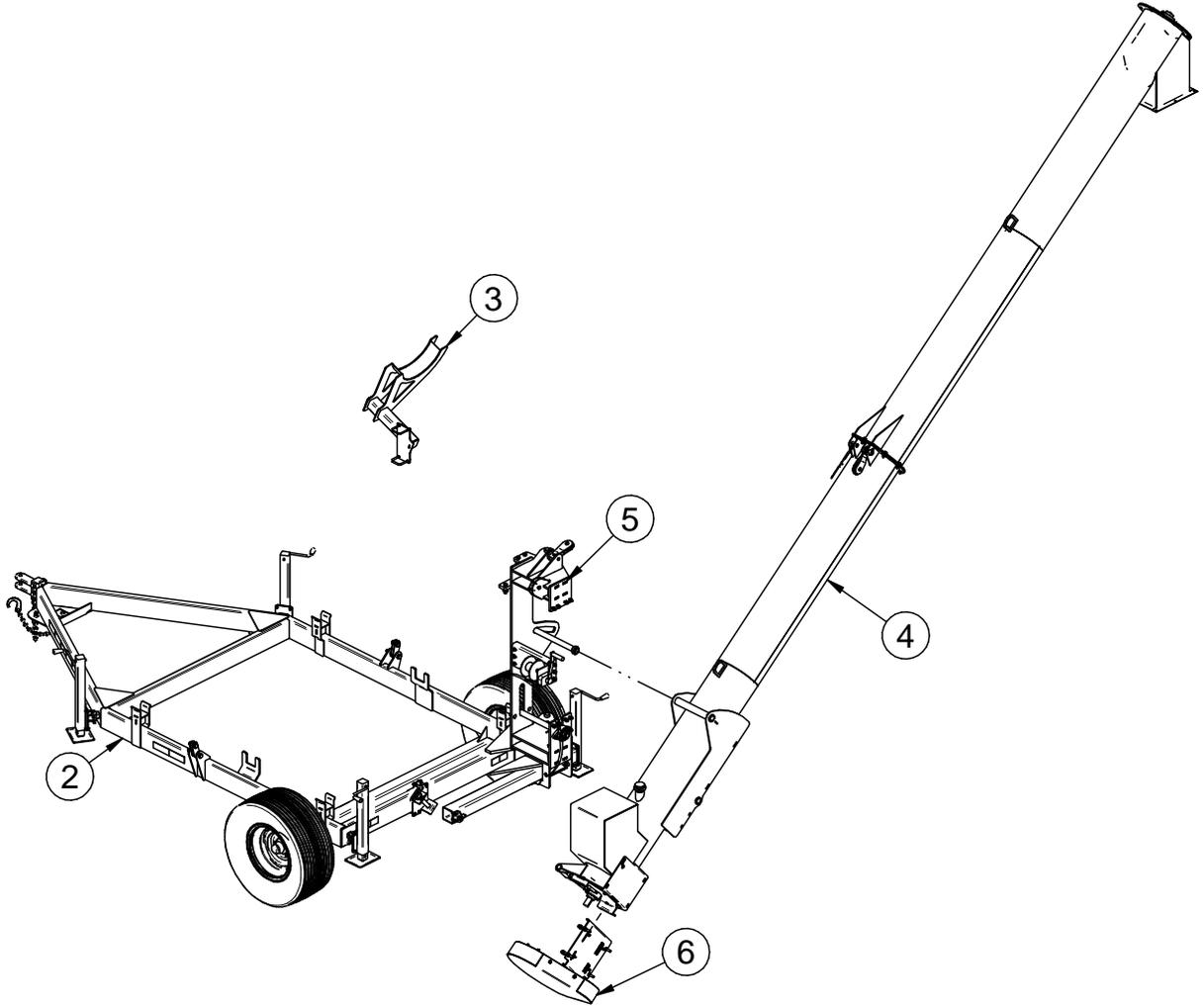
ASSEMBLY JACKSTAND BRACE (13-04-0289 REV A0)



PART #		13-04-0289 REV B0	
Item #	Part #	Description	Qty
1	06-01-0069	BOLT .500-13 X 1.00 ZP GR5	2
2	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	2
3	06-09-0002	PIN CLIP HITCH 3.063 SIZE 9 ZP	1
4	06-09-0095	PIN CLVS .750 X 3.00 ZP	1
5	106C29	CHNNL JK-STND STOP	1

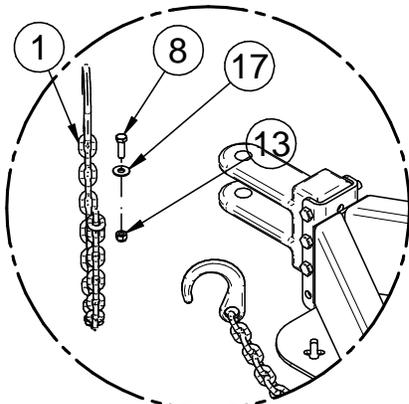
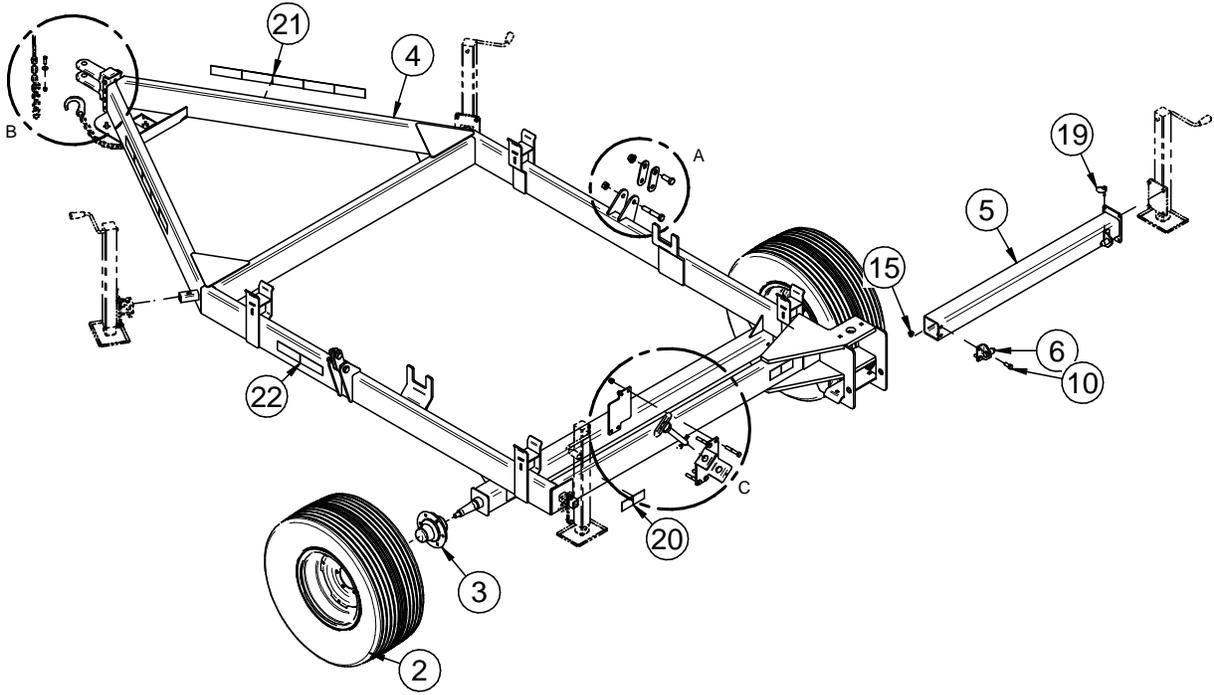
CTHC 3000 SEED TREATER

ASSEMBLY WHEEL KIT-AUGER-DRV, CTHC (13-01-0364 REV A1)

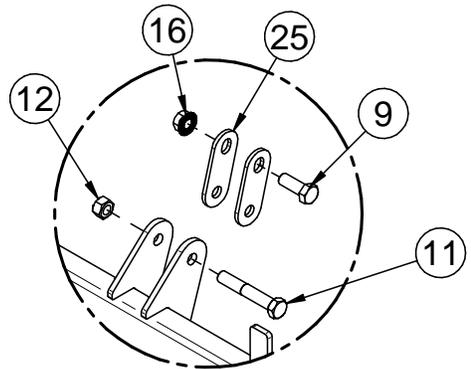


PART #		13-01-0364 REV A1		
Item #	Part #	Description	Qty	See Page
1	01-04-0031	WIRE ROPE .250 DIA 7 X 19 CLASS STR	27	
2	12-02-0019	ASSY WHEEL KIT CTHC	1	54
3	13-04-0268	ASSY AUGER REST	1	58
4	13-04-0269	ASSY AUGER 13IN	1	59
5	13-04-0270	ASSY AUGER PIVOT	1	56
6	13-04-0272	ASSY DRV KIT	1	63

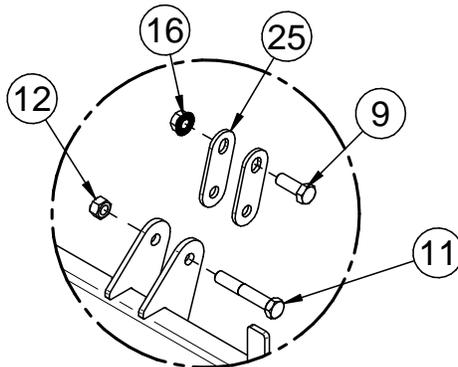
ASSEMBLY WHEEL KIT CTHC (12-02-0019 REV A2)



DETAIL B



DETAIL A



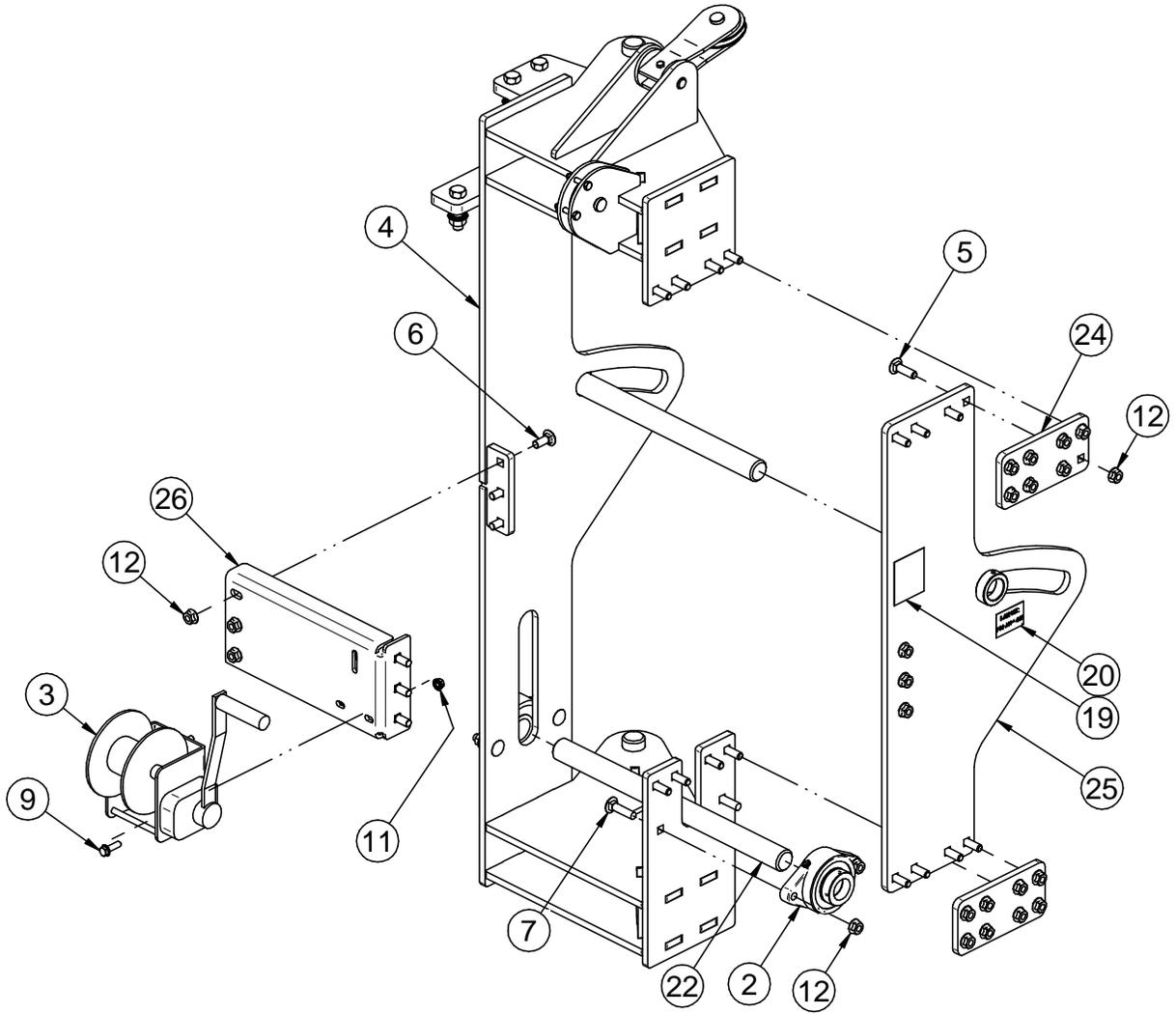
DETAIL A

CTHC 3000 SEED TREATER

ASSEMBLY WHEEL KIT CTHC (12-02-0019 REV A2)

PART #		13-01-0364 REV A1	
Item #	Part #	Description	Qty
1	01-06-0065	CHAIN SAFETY .3125 X 35IN W/LATCH	2
2	01-06-0096	WHL ASSY 11L/15 - 15X10 6HL AG TYPE	2
3	01-06-0140	AXLE HUB 3500# 6 ON 6BC	2
4	05-03-1865	WDMT WHEEL KIT FRM CTHC	1
5	05-03-1875	WDMT OUTRIGGER	1
6	05-03-1880	WDMT OUTRIGGER LOCK	1
7	06-01-0029	BOLT .500-13 X 3.25 ZP GR5	4
8	06-01-0053	BOLT .375-16 X 1.25 ZP GR5	2
9	06-01-0065	BOLT .750-10 X 2.00 ZP GR5	2
10	06-01-0080	BOLT .500-13 X 1.25 ZP GR5	2
11	06-01-0277	BOLT .750-10 X 4.50 ZP GR5	2
12	06-02-0029	NUT NYL LOCK .750-10 ZP GR5	2
13	06-03-0003	NUT NYL LOCK .375-16 ZP GR5	2
14	06-03-0004	NUT NYL LOCK .500-13 ZP GR5	4
15	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	2
16	06-03-0022	NUT WHIZ LOCK FLG .750-10 GR5	2
17	06-05-0004	WSHR FLAT .375 ZP	2
18	06-09-0072	PIN HITCH 1.00 X 7.5 LG W-CLIP	1
19	06-09-0101	PIN LYNCH .312OD X 1.250 LG STD	1
20	09-01-0012	TRLR TAPE REFLECTIVE RED WHT 2.00	1
21	09-01-0012	TRLR TAPE REFLECTIVE RED WHT 2.00	5
22	09-01-0012	TRLR TAPE REFLECTIVE RED WHT 2.00	2
23	106D52	BRKT AUGER PIN MOUNT	1
24	106D53	PLT PIVOT CLAMP	1
25	106D54	PLT LINK LOCK	4

ASSEMBLY AUGER PIVOT (13-04-0270 REV A2)

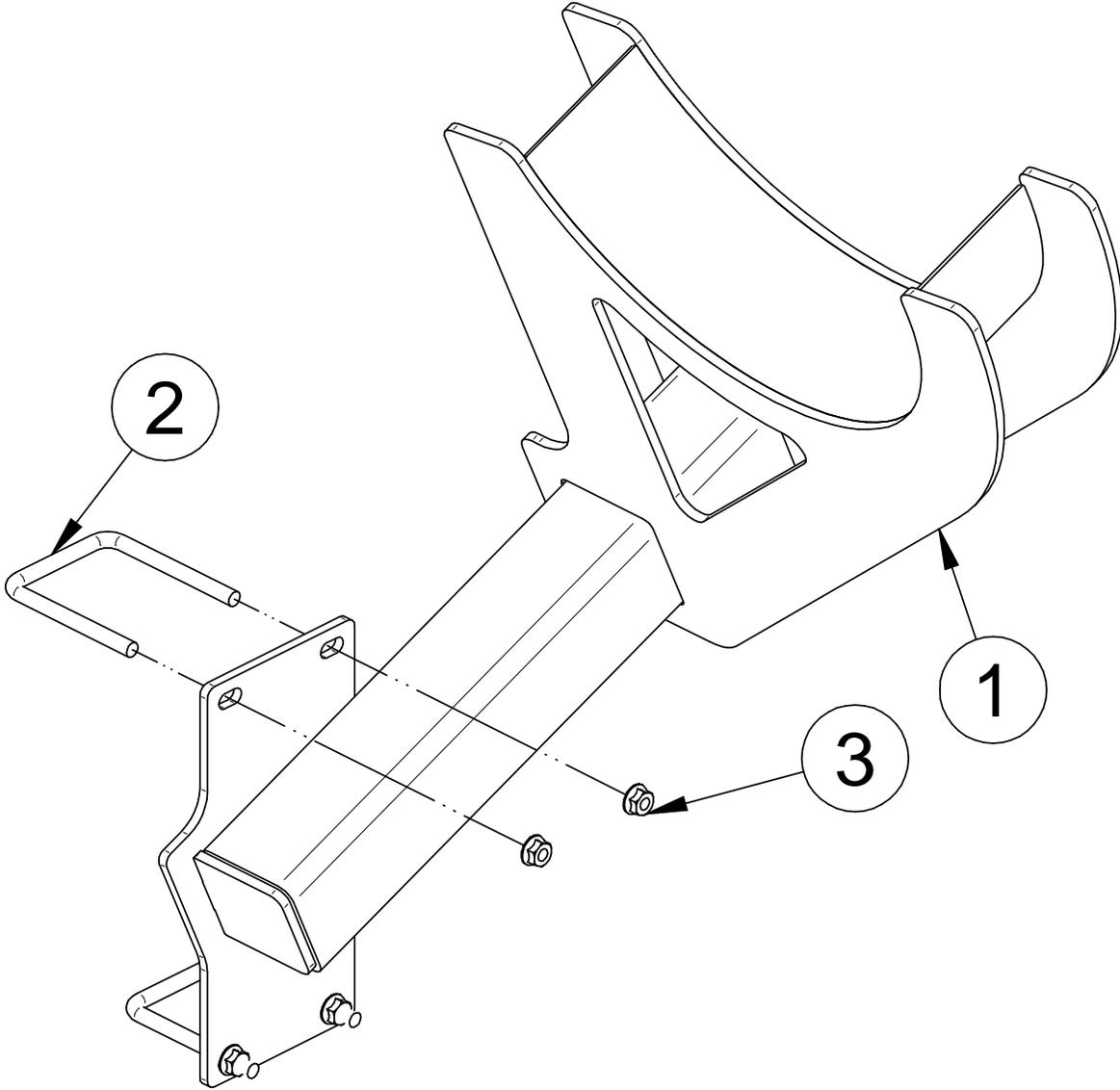


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ASSEMBLY AUGER PIVOT (13-04-0270 REV A2)

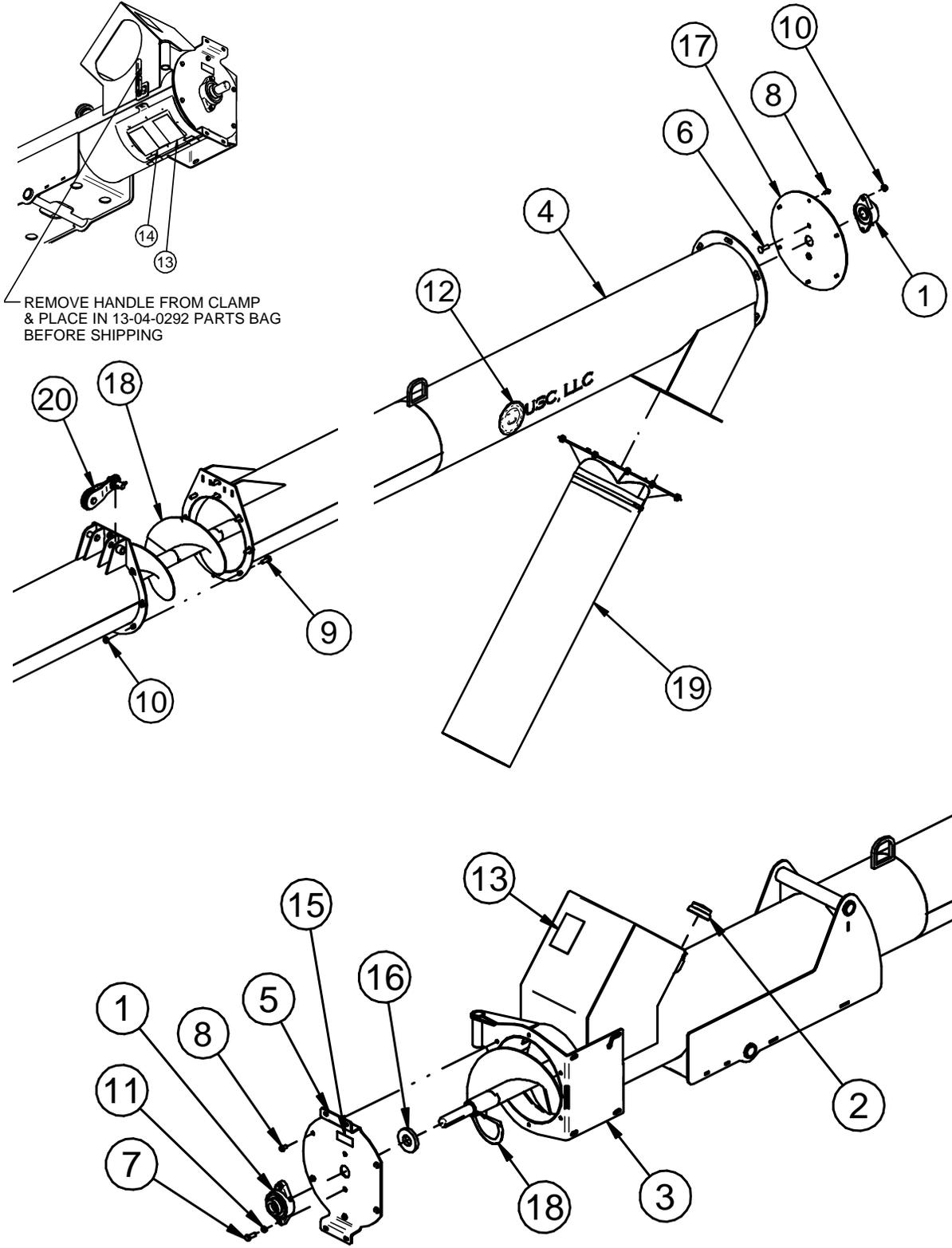
PART #		13-04-0270 REV A2	
Item #	Part #	Description	Qty
1	01-02-0074	PLLY WIRE ROPE 3 IN DIA	1
2	01-03-0077	BRG FLG MNT 1.500ID 2BOLT ECNTRC	4
3	01-08-0017	WINCH MNL 1500 LB W BRAKE	1
4	05-03-1864	WDMT PIVOT AUGER	1
5	06-01-0026	BOLT CRG .500-13 X 1.75 ZP GR5	16
6	06-01-0062	BOLT CRG .500-13 X 1.25 ZP GR5	6
7	06-01-0070	BOLT CRG .500-13 X 2.00 ZP GR5	4
8	06-01-0075	BOLT .625-11 X 2.50 ZP GR5	7
9	06-01-0189	BOLT FLG .375-16 X 1.250 ZP GR5	3
10	06-01-0279	BOLT CRG .500-13 X 2.50 ZP GR5	4
11	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	3
12	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	30
13	06-03-0019	NUT LOCK FLG .313-18 ZP GR5	2
14	06-03-0029	NUT WHIZ LOCK FLG .625-11 GR5	7
15	06-06-0013	BOLT .313-18 X 1.75 ZP GR5	2
16	06-09-0087	PIN CTTR .125 X 1.50 ZP	1
17	06-09-0094	PIN CLVS .750 X 2.00 ZP	1
18	06-12-0060	COLLAR SET 2 1/4"OD X 1 1/2"ID	2
19	09-02-0007	ATWK LBL DANGER POWER LINES	1
20	09-02-0015	ATWRK LBL DANGER PINCH POINT	2
21	106A09	WASHER THRUST UHMW	2
22	106A0C	SHAFT AGUER PIVOT	1
23	106A0E	SHAFT AGUER STOP	1
24	106A0F	PLT SPLICE PIVOT	2
25	106A19	PLT ATTACH	1
26	106A82	PLT WINCH MNT	1
27	106A88	PLT PIVOT MNT	1
28	13-08-0684	ASSY PULLEY PIVOT CNVRS	1

ASSEMBLY AUGER REST(13-04-0268 REV A0)



PART #		13-01-0364 REV A1	
Item #	Part #	Description	Qty
1	05-03-1878	WDMT AUGER REST	1
2	06-01-0290	BOLT U SQ .375-16 X 3.00 X 4.00 ZP	2
3	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	4

ASSEMBLY AUGER 13 INCH(13-04-0269 REV A2)



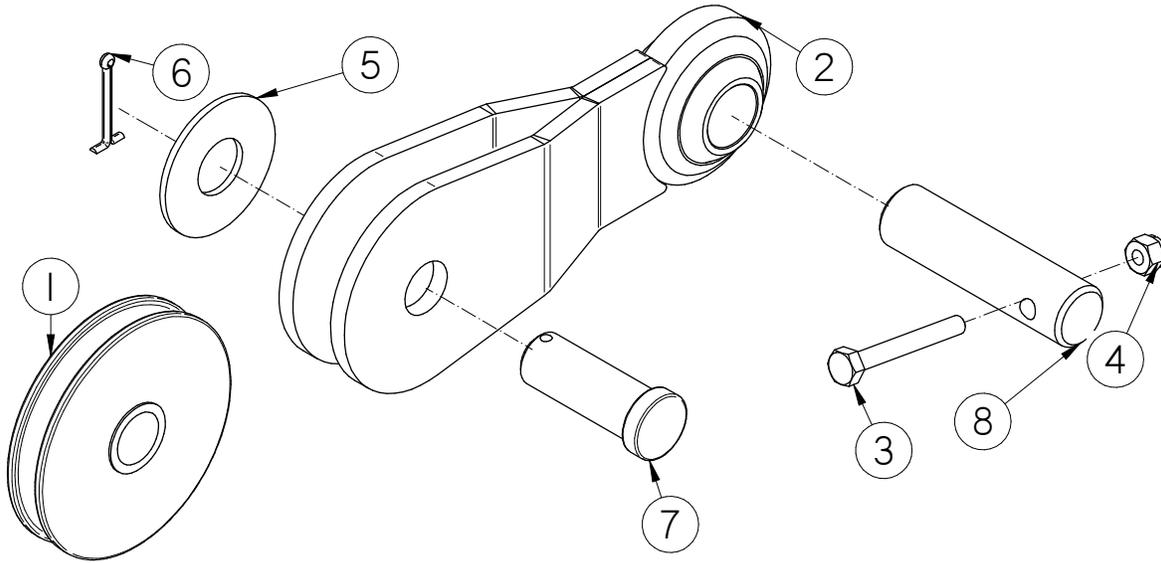
CTHC 3000 SEED TREATER

ASSEMBLY AUGER 13 INCH(13-04-0269 REV A2)

PART #		13-04-0269 REV A2		
Item #	Part #	Description	Qty	See Page
1	01-03-0077	BRG FLG MNT 1.500ID 2BOLT ECNTRC	2	
2	02-14-0022	FTTG END CAP 2IN NPT 125PSI ZP/GALV	1	
3	05-03-1862	WDMT LOWER AUGER TUBE 13IN	1	
4	05-03-1863	WDMT UPPER AUGER TUBE 13IN	1	
5	05-03-1873	WDMT AUGER END CAP	1	
6	06-01-0026	BOLT CRG .500-13 X 1.75 ZP GR5	2	
7	06-01-0080	BOLT .500-13 X 1.25 ZP GR5	2	
8	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	12	
9	06-01-0232	BOLT FLG .500-13 X 1.250 ZP GR5	9	
10	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	11	
11	06-04-0004	WSHR LOCK SPLT .500 ZP	2	
12	09-01-0043	ATWK LBL USC 22.00 X 5.75 PRO-CUT	2	
13	09-02-0001	ATWK LBL DANGER FINGERS	2	
14	09-02-0002	ATWK LBL DANGER GRD	1	
15	09-02-0012	ATWK LBL DANGER MISSING SHIELD	1	
16	106A09	WASHER THRUST UHMW	1	
17	106A15	PLT AUGER BRG MNT	1	
18	11-05-0038	ASSY POLY CUP FLIGHT W\SHAFT 12"DIA	1	
19	13-04-0291	ASSY AUGER SPOUT CTHC	1	62
20	13-08-0685	ASSY PLY ANGLE PIVOT CNVRS	1	61

CTHC 3000 SEED TREATER

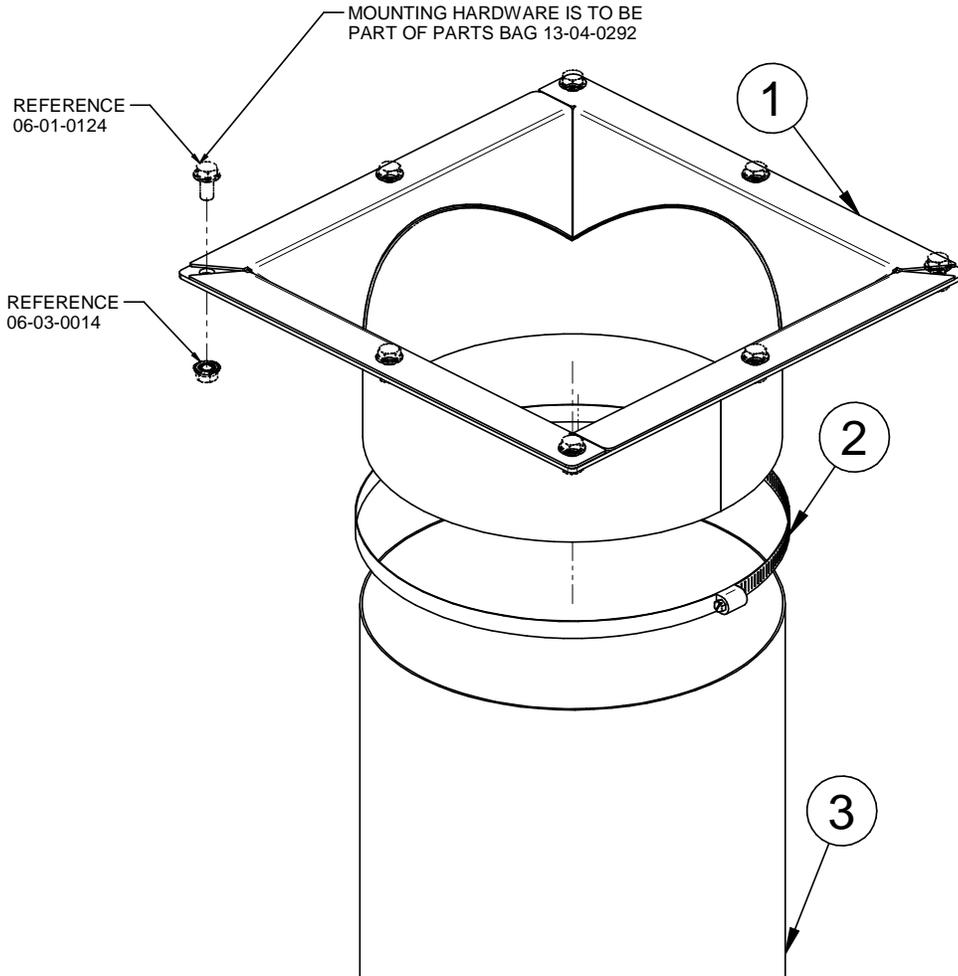
ASSEMBLY PULLEY ANGLE PIVOT(13-08-0685 REV A2)



PART #		13-08-0685 REV A2	
Item #	Part #	Description	Qty
1	01-02-0074	PLY WIRE ROPE 3 IN DIA	1
2	05-08-0555	WDMT SHV MNT PIVOT	1
3	06-01-0097	BOLT .250-20 X 2.00 ZP GR5	1
4	06-03-0001	NUT NYL LOCK .250-20 ZP GR5	1
5	06-05-0007	WSHR FLAT .750 ZP	1
6	06-09-0087	PIN CTTR .125 X 1.50 ZP	1
7	06-09-0094	PIN CLVS .750 X 2.00 ZP	1
8	104AC8	PIN PIVOT END	1

CTHC 3000 SEED TREATER

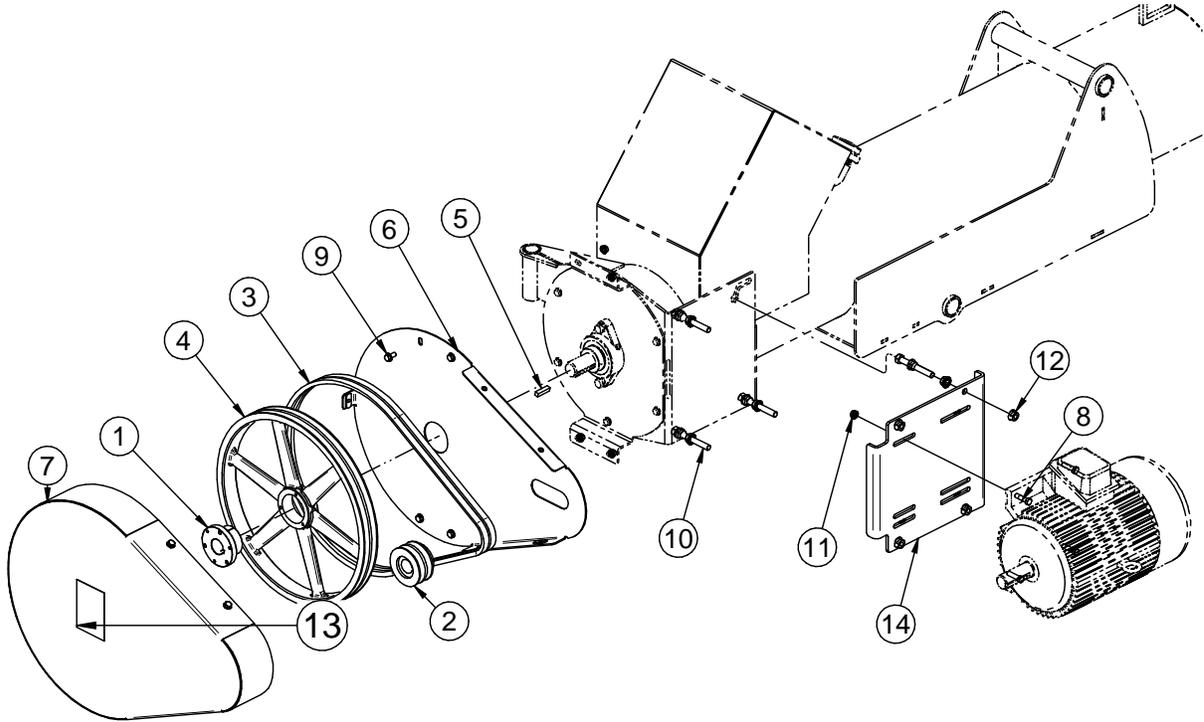
ASSEMBLY AUGER SPOUT CTHC(13-04-0291 REV A0)



PART #		13-04-0291 REV A0	
Item #	Part #	Description	Qty
1	05-03-1879	WDMT SPOUT 12"	1
2	06-07-0032	CLMP HOSE QR 16.25 X 9/16 SS	1
3	106A18	SPOUT EXT FLEX 12IN X 48IN	1

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ASSEMBLY DRIVE KIT(13-04-0272 REV A0)



PART #		13-08-0272 REV A0	
Item #	Part #	Description	Qty
1	01-02-0143	BUSH 1.50IN BORE TYPE SK	1
2	01-08-0119	SHV 2BK36 X 1.375 FHSB BORE	1
3	01-08-0129	BELT BX66	2
4	01-08-0147	SHV 2B18.4-SK	1
5	01-10-0015	KEY .375 X 1.50 CS	1
6	05-03-1886	WDMT GRD BACK	1
7	05-06-0061	WDMT GRD CVR AT500 3HP	1
8	06-01-0018	BOLT .375-16 X 1.50 ZP GR5	4
9	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	9
10	06-01-0157	BOLT .500-13 X 4.00 ZP GR5 FTH	4
11	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	8
12	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	12
13	09-02-0002	ATWK LBL DANGER GRD	1
14	106AB1	PLT ADPT MTR MNT	1

CTHC 3000 SEED TREATER

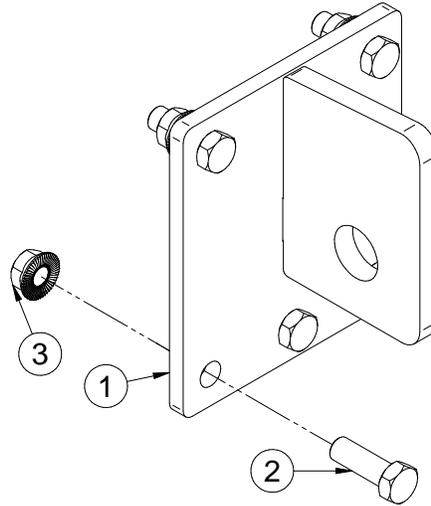
AUGER MOTORS AND CORD KITS

AUGER MOTORS		
VOLTAGE	PART #	DESCRIPTION
240V / 1PH	01-01-0131	MTR 10HP 1760RPM 215T TEFC 230V 1PH
240V / 3PH	01-01-0152	MTR EE 10HP 1760RPM 215T TEFC 3PH
575V / 3PH	01-01-0173	MTR EE 10HP 1760 215T TEFC 575V 3PH

AUGER CORD KITS		
VOLTAGE	PART #	DESCRIPTION
240V / 1PH	03-20-290	KIT CORD 230-1PH PORT INLET
240V / 3PH	03-20-0292	KIT CORD 230-3PH PORT INLET
575V / 3PH	03-20-0298	KIT CORD 575-3PH PORT INLET

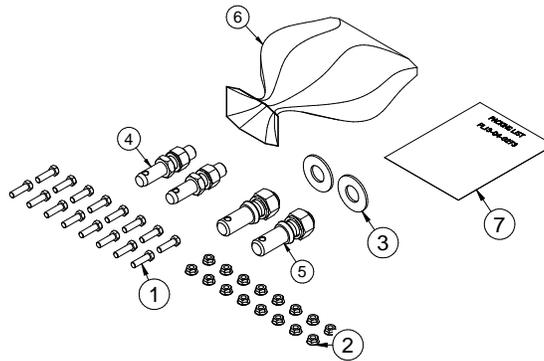
CTHC 3000 SEED TREATER

ASSEMBLY 3 POINT MOUNTING (13-04-0290 REV A0)



PART #		13-04-0290 REEV A0	
Item #	Part #	Description	Qty
1	05-03-1908	WDMT 3-POINT MNT	1
2	06-01-0025	BOLT .500-13 X 1.50 ZP GR5	5
3	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	5

KIT 3 POINT PINS (13-04-0273 REV A0)



PART #		13-04-0273 REV A0	
Item #	Part #	Description	Qty
1	06-01-0054	BOLT .500-13 X 1.75 ZP GR5	16
2	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	16
3	06-05-0028	WSHR FLAT 1.375 YZP	2
4	06-09-0093	PIN LIFT ARM CAT II	2
5	06-09-0096	PIN LIFT ARM CAT III	2
6	08-07-0039	BAG SHPG 10X16 POLY LAM W/TIE	1
7	PL-13-04-0273	PACKING LIST PARTS BAG CTHC	1

CTHC 3000 SEED TREATER

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13-04-0259	A1	ASSY ATOMIZER CTHC 3000	30
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13-04-0262	A0	ASSY FORK EXT RH CTHC 3000	49
13-04-0263	A0	ASSY FORK EXT LH CTHC 3000	49
13-04-0264	B0	ASSY JACK-STND CTHC	51
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CTHC 3000 SEED TREATER

NOTES

SECTION **USC LIMITED WARRANTY**

USC, LLC, (Manufacturer) warrants its seed treating equipment as follows:

1. **Limited Warranty:** Manufacturer warrants that the Products sold hereunder will be free from defects in material and workmanship for a period of 18 months from date of shipment. If the Products do not conform to this Limited Warranty during the warranty period, Buyer shall notify Manufacturer in writing of the claimed defects and demonstrate to Manufacturer satisfaction that said defects are covered by this Limited Warranty. If the defects are properly reported to Manufacturer within the warranty period, and the defects are of such type and nature as to be covered by this warranty, Manufacturer shall, at its expense, furnish replacement Products or, at Manufacturer's option, replacement parts for the defective products. Shipping and installation of the replacement Products or replacement parts shall be at the Buyer's expense.

2. **Other Limits:** THE FOREGOING IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Manufacturer does not warrant against damages or defects arising from improper installation (where installation is by persons other than Manufacturer), against defects in products or components not manufactured by Manufacturer, or against damages resulting from such non-Manufacturer made products or components. Manufacturer passes on to the Buyer the warranty it received (if any) from the maker of such non-Manufacturer made products or components. This warranty also does not apply to Products upon which repairs and / or modifications have been effected or attempted by persons other than pursuant to written authorization by Manufacturer. This includes any welding on equipment which could damage electrical components. Manufacturer does not warrant against casualties or damages resulting from misuse and / or abuse of Products, improper storage or handling, acts of nature, effects of weather, including effects of weather due to outside storage, accidents, or damages incurred during transportation by common carrier.

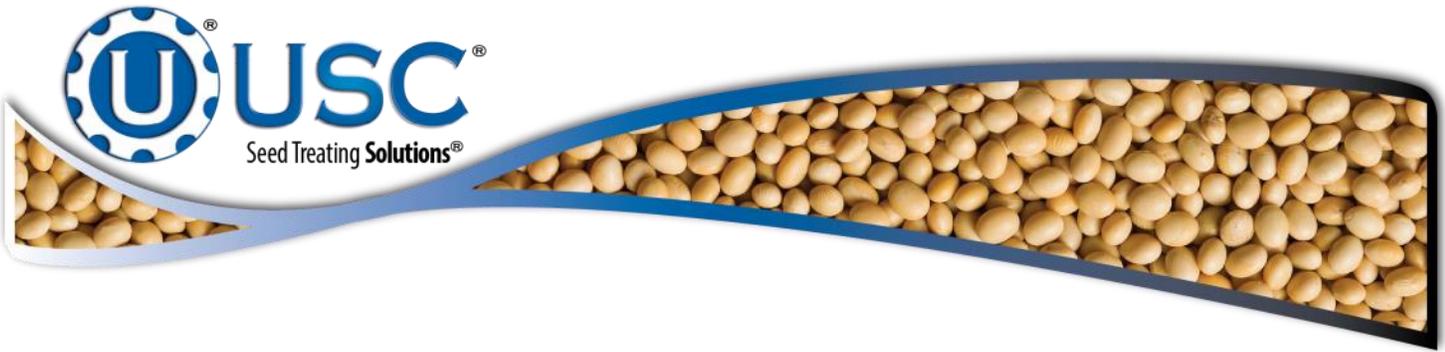
3. **Exclusive Obligation:** THIS WARRANTY IS EXCLUSIVE. The sole and exclusive obligation of Manufacturer shall be to repair or replace the defective Products in the manner and for the period provided above. Manufacturer shall not have any other obligation with respect to the Products or any part thereof, whether based on contract, tort, strict liability or otherwise. Under no circumstances, whether based on this Limited Warranty or otherwise, shall Manufacturer be liable for lost profits, lost revenue, lost sales (whether direct or indirect damages), incidental, special, punitive, indirect or consequential damages.

4. **Other Statements:** Manufacturer's employees or representatives' oral or other written statements do not constitute warranties, shall not be relied upon by Buyer, and are not a part of the contract for sale or this limited warranty.

5. **Return Policy:** Approval is required prior to returning goods to Manufacture. A restocking fee will apply.

6. **Entire Obligation:** This Limited Warranty states the entire obligation of Manufacturer with respect to the Products. If any part of this Limited Warranty is determined to be void or illegal, the remainder shall remain in full force and effect.

US / Canada Non-Exclusive 2016



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USC, LLC

2320 124th road

Sabetha, KS 66534

PHONE: (785) 431-7900

EMAIL: sales-team@uscllc.com

