SWEED®

"Turning unmanageable scrap into manageable assets"

5703 AG XHD QUAD KNIFE SYSTEM W/ MAG CROSS BELT AND HIGH SPEED CONVEYOR 460V 3PH 60HZ, 120V CTRL

AD074777

SERIAL NO: _____ **YEAR:** _____

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MA013954

OPERATING INSTRUCTIONS

FOREWORD

THE PURPOSE OF THIS MANUAL IS TO FAMILIARIZE QUALIFIED INDIVIDUALS WITH THE OPERATIONAL PROCEDURES OF SWEED MACHINERY EQUIPMENT.

THE MANUFACTURER RECOMMENDS THAT USERS FAMILIARIZE THEMSELVES WITH THE APPLICATIONS AND USES OF SWEED MACHINERY EQUIPMENT PRIOR TO OPERATION. SWEED MACHINERY EQUIPMENT SHOULD NOT BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS DESIGNED.

IN ORDER TO PROVIDE DEPENDABLE AND SAFE SERVICE, THIS MACHINERY MUST BE OPERATED BY TRAINED PERSONNEL WEARING EYE PROTECTION AND GLOVES. PERSONNEL OPERATING THE EQUIPMENT MUST UNDERSTAND THE TYPE OF MATERIAL THAT IT IS CAPABLE OF PROCESSING.

ANY MISUSE OF SWEED MACHINERY EQUIPMENT CAN BE DANGEROUS. ALL OPERATORS SHOULD BE FAMILIAR WITH THE GENERAL OPERATING INSTRUCTIONS AND WARNINGS.

NOTE: IT IS THE OWNERS RESPONSIBILITY TO INSTALL THE SWEED MACHINERY EQUIPMENT IN CONFORMANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND TO INSTRUCT PERSONNEL IN SAFE OPERATING PROCEDURES.

TABLE OF CONTENTS

1.0 GENERAL INFORMATION

The Sweed 5703 Separation System is a compact system designed to process and separate ferrous and non ferrous material. This system is ideal for chopping ACSR and ACSS cable.

1.1 PERFORMANCE DATA

- Electric motor power: 5703 AG XHD 60 HP, Inclined Outfeed Conveyor 1 HP, Mag Cross Belt 3/4 HP
- Infeed Speed: 0-250 FT/MIN
- Cut Length or size of material varies: (.5-2.6)inches
- Equipment weight: 12,500 lb

1.2 ELECTRICAL REQUIREMENTS

All wiring for installation, or any other purpose, should be done by a licensed electrical contractor and in accordance with N.E.C, state and local requirements.

- 3-Phase, 460 volt, 60 Hz
- Full Load Amps: 81 A
- Fuses: AJT-150 or equivalent

1.3 MACHINE LOCATION

- This system must be installed so that there is at least 36” of space on all sides to properly access, operate and maintain system.
- End user must ensure that the utility connections do not present a slip, trip or fall hazard.

1.4 GENERAL SYSTEM PRECAUTIONS

- Do not climb on the machine.
- Use access aids/step ladders when repairing or cleaning components out of reach.
- Clean up spillages or leaks immediately.
- Before removing guarding, allow sufficient time for the flywheel mechanism to coast to a complete stop and dissipate all energy.
- Only trained operators and maintenance technicians who have read and understand this manual should work on the Sweed separation system.

2.0 SAFETY INFORMATION

2.1 OPERATING RISKS

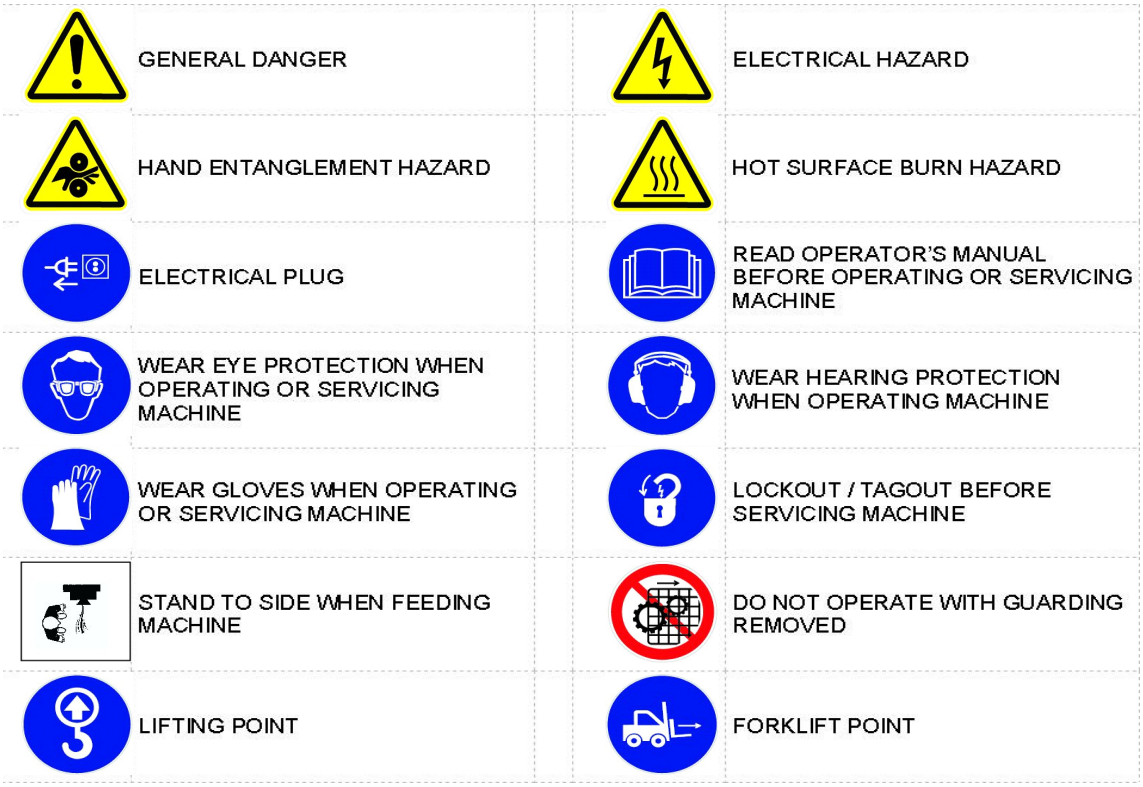
- When feeding material into the system, be cautious of entanglements in the scrap material as it is drawn into the infeed funnel. This material can hook on clothing and wrap around body parts, pulling the operator towards the machine.
- While rare, it is possible for processed material to kick-back out of the infeed funnel. Stand to the side when feeding material into the Sweed separation system. Do not look into the infeed funnel when the machine is running. Keep body parts away from underneath the machine where ejected material is discharged from the cutting chamber.

2.2 PRECAUTIONS

This system uses knives and motion to process material. Consequently, it can be a dangerous machine to operate and maintain unless you follow specific safety regulations. The regulations should be read and periodically reviewed by all people involved in operation and service of this machine.

- Never operate or remove any system components that are secured unless the system is electrically locked out and all moving parts are motionless.
- Never operate the system unless all guards and covers are in place and secure;
- Prior to clearing a jam or performing any maintenance, all motors should be turned off and electrically locked out. Be sure that all moving parts have come to a complete stop. Do not insert your hands into any part of the system to clear the jam.
- Do not extend any part of your body into infeed openings, discharge areas or into the conveyor tables unless the system is electrically locked out and all parts are motionless.
- Be sure that the v-belts are properly aligned and that tension is within tolerance. See independent machine manuals for specifications.
- Extreme care should be taken to see that all bolts are properly tightened at all times. During the operation of the machine, the bolts may come loose from vibration and should be checked as per Fig 11-1.
- The work area must be kept clean and uncluttered during periods of operation or maintenance. No tools or other metal objects should be left on or around the machine.

2.3 WARNING LABELS



These labels are used on all Sweed equipment. Please familiarize yourself with them and their meanings.

2.4 PROCESSED MATERIAL PRECAUTIONS

- Material being processed must not be combustible when chopped.

- If necessary, measures must be taken to dissipate electrostatic build-up on machine or processed material.

2.5 PERSONNEL PROTECTION EQUIPMENT REQUIREMENTS

Eye Protection

- Safety glasses must be worn when operating the system.
- Safety glasses must be worn when performing maintenance on the system.

Hand Protection

- Gloves must be worn whenever handling material being processed in the machine.
- Gloves must be worn when performing maintenance on the system.

Hearing Protection

- Ear plugs or ear muffs must be worn when processing scrap material.
- Hearing protection and exposure time limits varies with material being processed and type of hopper capturing the material.

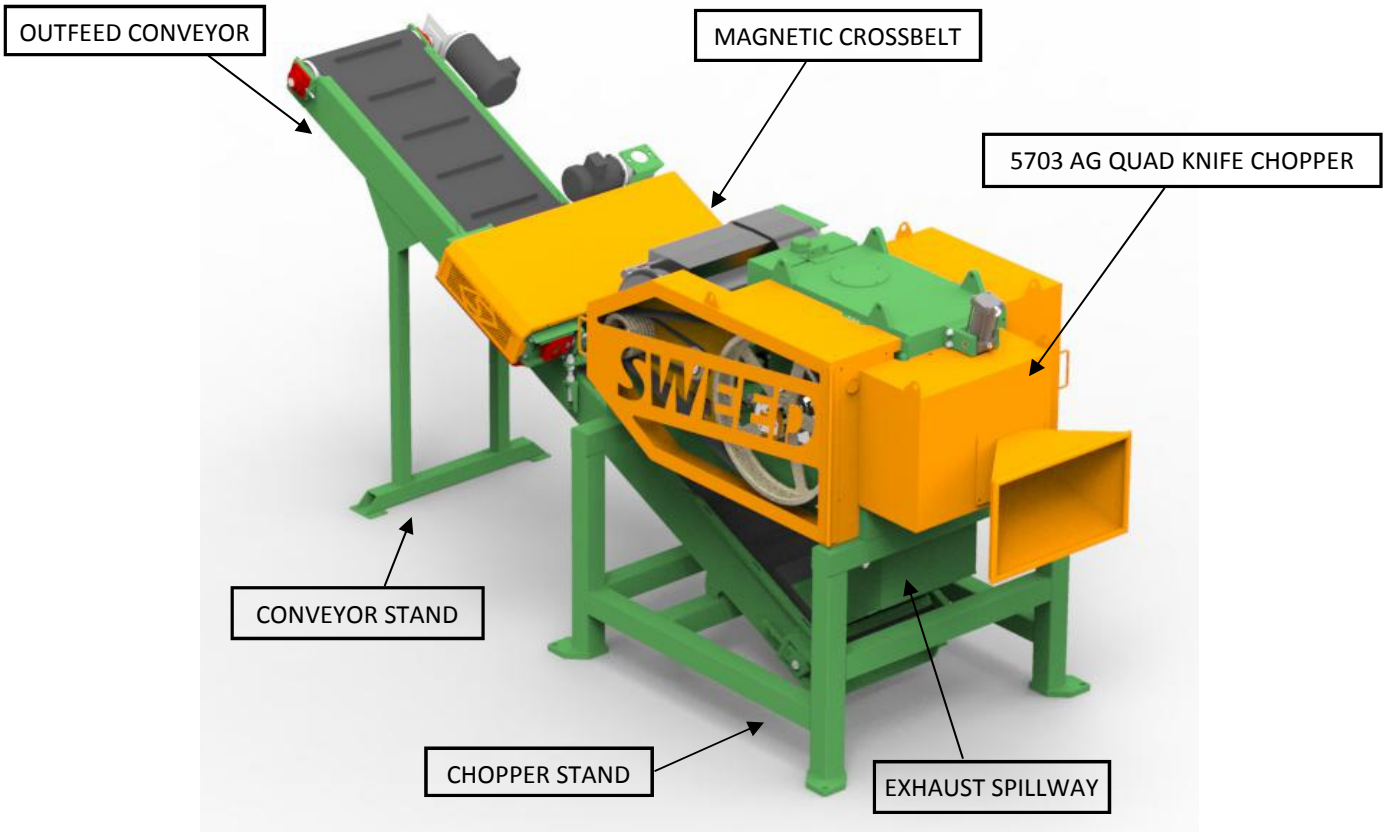
Breathing Protection

Dust masks may be required if processed material creates airborne dust / fiber when chopped.

3.0 COMPONENTS

3.1 5703 AG XHD SCRAP CHOPPER

The Sweed® 5703 AG XHD Scrap Chopper is truly the workhorse of industrial choppers and is capable of processing a wide range of sizes and types of linear materials ranging from high tensile bale wire, steel banding, solid aluminum or copper bar and ACSR cable. With the hydraulic feedworks, this machine is capable of pulling and chopping great lengths of even the large ACSR cable.



3.2 OUTFEED SECTION

The out feed section is comprised of two distinct components. The first is the inclined outfeed conveyor and second is the Sweed magnetic cross belt.

The inclined outfeed conveyor moves a steady stream of chopped material from under the Sweed 5703 chopper to the magnetic cross belt for steel separation

The MCB 2030 magnetic cross belt is a reliable steel separation unit. The powerful magnets are capable of pulling even small steel wire from within a deep burden of material holding it tight to the belt then dropping it into a waiting container.

4.0 INITIAL STARTUP

This machine has been tested at the factory prior to shipment. The necessary settings and adjustments have been made so that a minimum amount of setup or re-adjustment is required when starting up the machine in its new location. All wiring should be done by a licensed electrician. After all electrical, mechanical connections and lubrication requirements have been attended to and the system is level, the following start-up steps should be carefully carried out before processing any material. Use the following procedure to prepare the machine for initial start-up:

WARNING! Before operating, insure that the system has been correctly assembled and wired.

4.1 5703 AG XHD CHOPPER:

- Check that all wiring is installed correctly.
- Bump motor over to check rotation. Motor rotation is clockwise when viewing shaft end of the motor.
- Once running check alignment of belts.

4.2 INCLINED OUTFEED CONVEYOR

- Make sure there is adequate clearance around the machine to avoid any interferences when the machine is powered up.
- Ensure conveyor is mounted securely with all bolts tightened.
- Bump motor over to check rotation.
- Once running check alignment of belt.

4.3 MCB 2030 MAGNETIC CROSS BELT

- Bump motor over to check rotation.
- Once running check alignment of belt.

5.0 OPERATION

5.1 CONTROL PANEL

The control panel is remotely mounted on a stand which can be placed where desired to facilitate safe and easy access. See Fig. A.

E-Stop button: Red illuminated button ringed in yellow. Pressing this button will kill power to the system. The feedrolls will stop and open.

Note: Although power is killed it will take a moment for the chopper's flywheel to come to a complete stop.

Flywheel button: This illuminated button starts and stops the chopper's flywheel. Pressing the button will kill power to the flywheel but it will take time for the chopper's flywheel to come to a complete

stop.

Feedworks Button: This green illuminated button is pulled to start the feed system. Pressing this button will stop material feed.

Infeed Speed knob: This knob allows the operator to control both the speed of material feed and the direction. The top middle selection will stop the feed roll from turning holding the material if the feedrolls are closed on the material. Turning the knob to the right will advance the material into the chopper . The further the knob is turned to the right, the faster the machine feeds. The opposite is true, Turning the knob to the left will cause the material to be fed out of the machine. This is handy when material is not feeding properly.

FIG. A

Feedworks open closed. This selector switch works in conjunction with the footswitch to open and close the feedworks. If the user wants to use the footswitch as the primary means of opening and closing the feedrolls, the selector switch needs to be set to the close position. Now pressing on the foot pedal will close the feedworks, holding or drawing material into the machine. Pressing the toe button inside the footswitch will open the feedworks stopping material feed and releasing it. If the user wants to use the selector switch on the consol as the primary means of opening and closing the feedrolls then the foot switch foot pedal needs to be pressed once. Now turning the selector switch to the open position will open the feedworks stopping material feed and releasing it. Turning the selector switch to the closed position will close the feedworks, holding or drawing material into the machine

Out feed Section: This illuminated button when pulled will start the inclined outfeed conveyor and the magnetic cross belt; pushing it will kill power to the same.

5.2 START UP SEQUENCE

WARNING! Under no circumstances should the operator reach into the infeed opening to dislodge any material while the chopper is running. To clear the any jammed material, the system main power must be turned off and locked out.

1. Make sure all personnel and equipment are clear.
2. Reset any E-Stop buttons which may have been depressed by pulling to their outer most position.
3. Start flywheel by pulling the green button labeled “Flywheel”.
4. Start outfeed section by pulling the green button labeled “Outfeed Section”.
5. Now pull the button labeled “Feedworks” to start the feeding roll turning.
6. Place material into the infeed opening and start chopping.

NOTE: Reverse order for shutdown.

WARNING! Under no circumstances should the operator reach into the infeed opening to dislodge any material while the chopper is running. To clear the any jammed material, the system main power must be turned off and locked out before any maintenance.

6.0 TIPS AND GUIDLINES

6.1 5703 AG XHD SCRAP CHOPPER

It was determined that maintaining a close knife gap of around .002 –.004 of an inch reduces the likelihood of material build up on the knives and also increases the knife life. Also to increase the knife life, the longer the cut length the better.

It is recommended that records are kept by the operators noting pounds of material being chopped per knife edge, gap settings, cut length and flywheel speed. Keeping these kinds of records, you will be able to optimize the setting allowing you to get the most out of the Sweed chopper

6.2 Magnetic Cross Belt

The magnetic cross belt is mounted atop the inclined conveyor.. The amount of magnetic pull exerted by the cross belt can be adjusted by raising or lowering the cross belt at its threaded mounting points. It is suggested that the mag cross belt be set at the maximum distance from the material and still be able to pull the steel out of the material burden. This maximum distance will result in minimizing the amount of nonferrous material being carried out with the steel.

7.0 MAINTENANCE

- ***Lockout/Tagout prior to any maintenance procedures.***
- ***Maintenance only to be undertaken by trained personnel.***

7.1 PREVENTATIVE MAINTANENCE

Sweed recommends the following general guidelines to maximize life of your separation system and its components:

ITEM TO CHECK	INTERVAL
BOLTS ANCHORING MACHINES	DAILY
HYDRAULIC LEVELS AND CLARITY	WEEKLY
CHECK OIL IN AIRLOCK GEAR BOXES	MONTHLY

7.2 LUBRICATION

The feedworks bearings and main shaft bearings have been greased at the factory and do not require supplemental grease before service life begins. Grease bearings once a week or more often as needed, depending on hours of operation. Re-lubrication, when administered correctly, can increase the life of the bearings. Sweed recommends the following general guidelines to maximize bearing life:

Temperature	Environmental conditions	Interval
0°C-65°C (32°F-150°F)	Dirty	Weekly to monthly
Over 65°C (150°F)	Dirty	Daily to 2 weeks
Any temp.	Very Dirty	Daily to weekly
Any temp.	Extremely Dirty	Daily to weekly

- Bearings should be greased with no. #2 NLGL or a multipurpose ball bearing grease. The grease needs to be added slowly to avoid damaging the bearing seals.
- All chains should be periodically inspected, cleaned and re-lubed.
- Gears should be lubed with Chevron RPM Universal Gear Lubricant, SAE 85W-140
- Hydraulic Reservoir needs to be filled with Chevron Hydraulic oil AW ISO 32
- Knives need to be lubricated with Kool Mist Formula #77

7.3 KNIFE ROTATION AND REPLACEMENT

The knives for the 5703 AG XHD chopper have four edges and are rotated when one edge becomes dull. When replacing or rotating knives, always use new knife bolts.

See "Recommended Spare Parts List" section for appropriate replacements.

To rotate the flywheel knife:

- Lockout/tag out power.
- Unscrew bolts holding the housing front plate in place and swing open to expose the cutting chamber.
- Loosen and remove the four bolts holding the knife in the flywheel assembly [Fig. 1].
- Remove knife.
- When replacing or rotating knives, always use new knife bolts. Failure to do so can result in knife damage and or injury.
- Be sure to blow off knife pocket and wipe clean. Wipe down the knife with a suitable solvent. Place knife back in pocket with new edge exposed and snug down the bolts.
- Draw knife bolts down evenly with torque wrench to 80 ft-lbs. Seat knife with a brass hammer or knocker bar [Fig. 2].
- Draw knife bolts down with torque wrench to 160 ft-lbs. Seat the knife again.
- Draw knife bolts down with torque wrench to finish torque of 240 ft-lbs.
- Using feeler gauges, check the gap between the rotary and stationary knives. The gap should be a minimum of (.002 in) and a maximum of (.008) [Fig. 3].

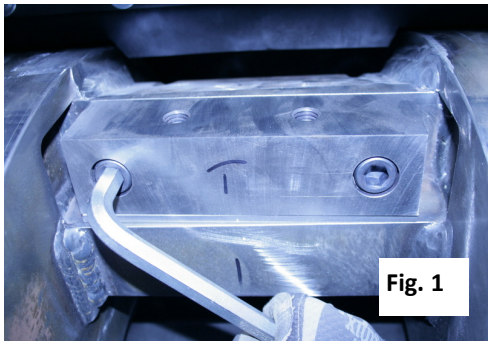


Fig. 1

To rotate the stationary knife:

- Lockout/tag out power.
- Unscrew bolts holding the housing front plate in place and swing open to expose the cutting chamber.
- Loosen and remove the two bolts holding the knife in the stationary knife holder. [Fig. 4].
- Remove knife.
- When replacing or rotating knives, always use new knife bolts. Failure to do so can result in knife damage and or injury.
- Do not remove shim located behind the stationary knife. The shim is custom ground for each chopper; do not attempt to remove or regrind.


Fig. 2

- Be sure to blow off knife pocket and wipe clean. Wipe down the knife with a suitable solvent. Place knife back in pocket with new edge exposed and snug down the bolts.
- Draw knife bolts down evenly with torque wrench to 80 ft-lbs. Seat knife

- with a brass hammer or knocker bar [Fig. 5].
- Draw knife bolts down with torque wrench to 160 ft-lbs. Seat the knife again.
- Draw knife bolts down with torque wrench to a finish torque of 240 ft-lbs.
- Using feeler gauges, check the gap between the rotary and stationary knives. The gap should be a minimum of (.002 in) and a maximum of (.008) [Fig. 3].

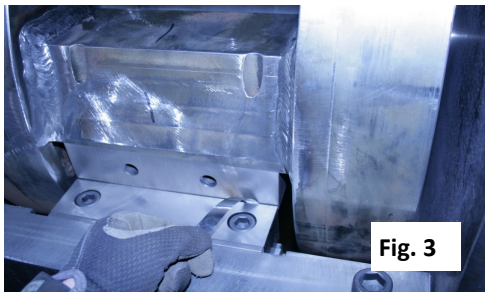


Fig. 3

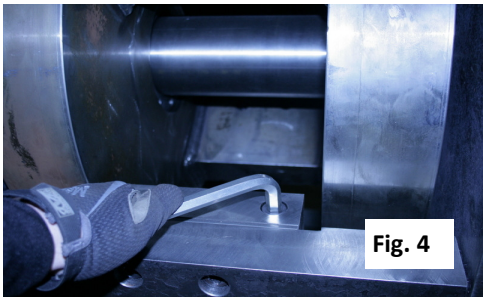


Fig. 4

7.4 SETTING THE KNIFE GAP

The knife gap should remain consistent when installing new knives or rotating to a new knife edge except for changes due to knife wear. So adjusting the knife gap should only be needed after major repairs like replacing a main bearing.

- Lockout/tag out power
- Open housing front plate up to get access to flywheel
- Use a feeler gauge to check gap between stationary and rotating knife [Fig. 3].
- Loosen, but do not remove, the four bolts located on each shaft bearing.
- Loosen both jack screws on each bearing. This will allow the flywheel assembly to moved using the jack screws to achieve the desired knife gap
- Once in the right position, tighten the bearing bolts first, then the jack screws to hold everything in place.
- Fully torque bearing bolt to the required torque
- Check knife gap, if gap is excessive repeat the above steps


Fig. 5

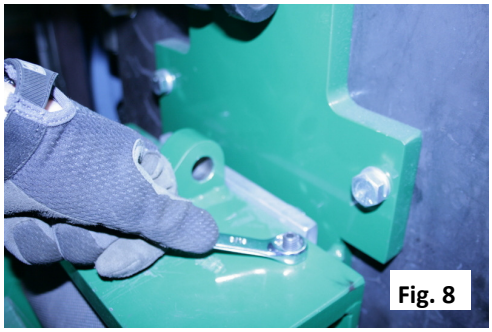


Fig. 8

7.5 FEEDROLL GAP ADJUSTMENT

- Lockout/tag out power
- Disconnect air supply
- Swing open front guard exposing feedworks.
- Tighten or loosen the nut on top of feedworks assembly to adjust feedroll [Fig. 8]
- Check the gap between the feedrolls [Fig. 9].
- After desired gap is obtained, lock adjusting screws by tightening their jam nuts


Fig. 9

Note: Do not allow the upper roll to contact the lower roll for an extended period of time. Operating the machine with the rolls in contact will rapidly erode away the knurling on the rolls, reducing material feeding efficiency.

7.6 MATERIAL GUIDE ADJUSTMENT

There is a material guide located just behind each feedroll. This guide prevents fed material from feeding around the roll and tangling rather than moving into the cutting chamber. A small gap must be maintained between each material guide and its corresponding feedroll. This gap needs to be at most half of the thickness of the thinnest material being fed into the machine or .015 whichever is smallest. This gap will widen over time as the knurling on the rolls starts to wear and will require future adjustment.

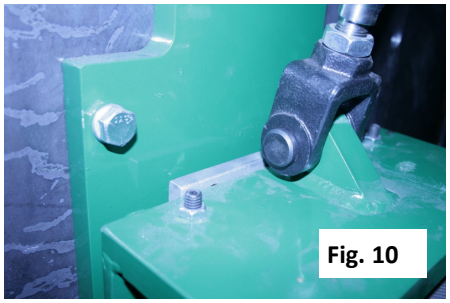


Fig. 10

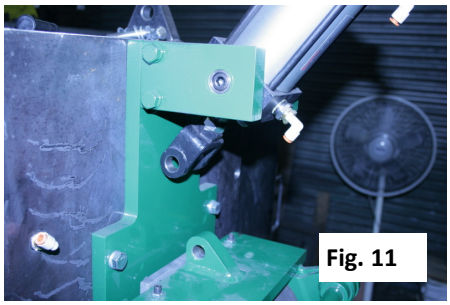


Fig. 11

Upper/Lower Main Material Guide Access:

- Lockout/tag out
- Disconnect power.
- Unscrew bolts holding front guard in place. Swing front guard open to gain access to feedworks.
- Disconnect air supply to feedworks cylinder
- Remove pin from clevis that attaches the cylinder to the feedworks manually by removing locking pin from side and pulling pin out. [Fig. 10].
- Retract rod to get it out of the way [Fig. 11].
- Swing open upper feedworks assembly [Fig. 12].
- Adjust material guide as needed.

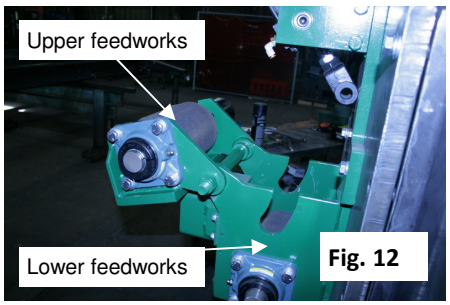


Fig. 12

To adjust upper material guide:

- Loosen bolts holding the upper material guide to the upper feedworks assembly [Fig. 13].
- Adjust the gap to the required width. Set gap to, at most, half of the thickness of the thinnest material being fed into the machine. The closer the gap, the better. Use a feeler gauge to verify the gap [Fig. 13].
- Tighten bolts, double check gap, and rotate the feedroll to make sure it does not contact the material guide. If it does, repeat adjustment.
- Reinstall air cylinder and reapply the air pressure

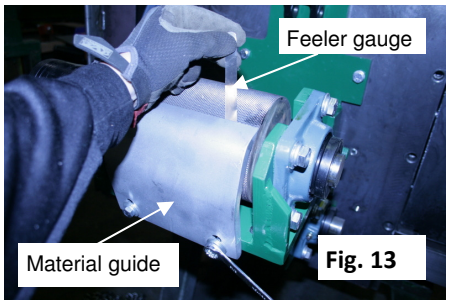


Fig. 13

To adjust lower material guide:

- Loosen bolts located behind the lower roll which hold the lower material guide to the lower feedworks assembly [Fig. 14].
- Adjust the gap to the required width. Set gap to, at most, half of the thickness of the thinnest material being fed into the machine. The closer the gap, the better. Use a feeler gauge to verify the gap [Fig. 15].
- Tighten bolts, double check gap, and rotate the feedroll to make sure it does not contact the material guide. If it does, repeat adjustment.
- Reinstall air cylinder and reapply the air pressure

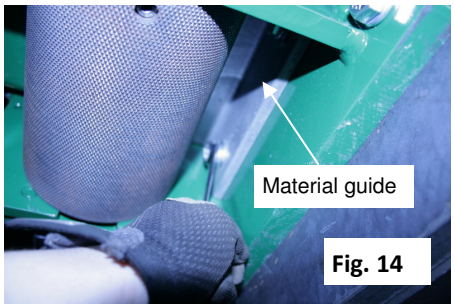


Fig. 14

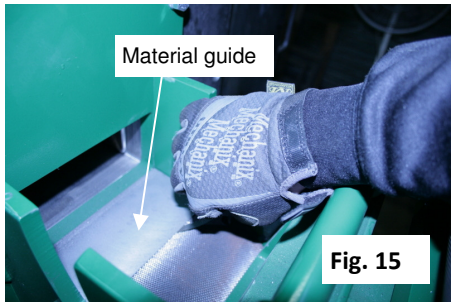


Fig. 15

7.7 TIGHTENING SCHEDULE

Due to the vibratory impact associated with Sweed scrap choppers, it is imperative to follow a strict bolt tightening schedule. Failure to do so may result in damage to the machine, injury to the operator and/or voiding of the machine's warranty.

- Inspect the machine after shipping and before operating; fasteners may have loosened during shipping.
- Inspect and tighten loose fasteners after a break-in period of 8 hours machine operating time.
- Inspect and tighten loose fasteners every 60 hours machine operating time after break-in period.
- Always tighten fasteners incrementally in a pattern up to the torque specifications when applicable.
- Critical fasteners and their required torque specs are listed in the table below

Location/Description	Torque Spec
Knife Bolts Initial Torque	(80 ft-lbs)
Knife Bolts Second Torque	(160 ft-lbs)
Knife Bolts Final Torque	(240 ft-lbs)
Main Bearing Torque	(600 ft-lbs)

7.8 AIR/MIST SYSTEM

The air system is comprised of the feedworks air cylinder and the mist system.

The feedworks air cylinder provides the downward pinching force on material to assist with feeding. It also opens the feedrolls to release the fed material.

The mist system applies cutting lubricant onto the cutting surfaces of the knives. This cutting fluid is to help prolong the cutting edge of the knives and reduce the chance of material building up on the knife surfaces. The operator can control both the flow rate and frequency of coolant to best meet their needs. [Fig. 16].

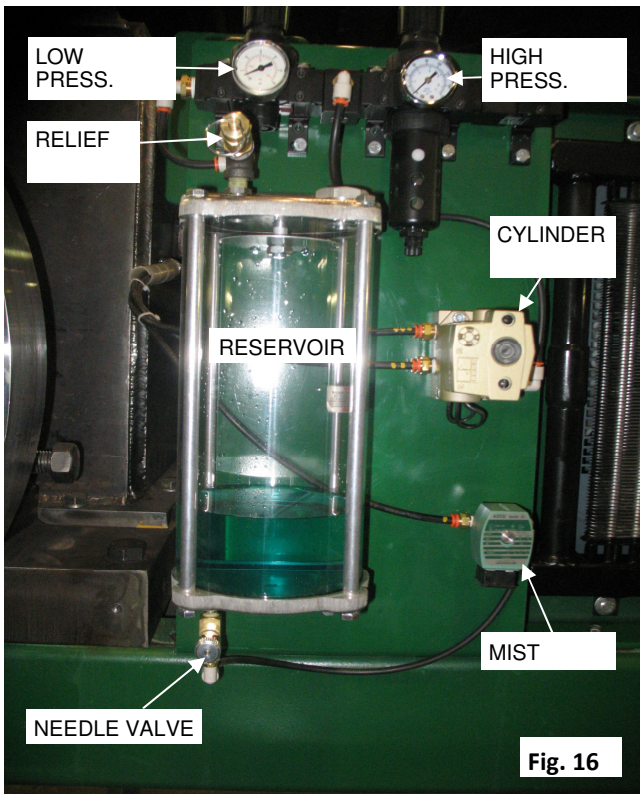


Fig. 16

High pressure regulator: This regulator allows the operator to control the system air pressure changing the pressure to the feedworks cylinder increasing the pinching force on the material or decreasing it. The pressure should be set between 40 and 80psi.

Low pressure regulator: The low pressure regulator allows the operator to regulate the pressure within the mist system reservoir. This pressure moves the coolant to the knives. The pressure should be set between 15 and 30psi.

Relief valve: The relief valve is to safely release excess pressure in the reservoir. This valve can be manually operated by pulling on the ring to release reservoir pressure. This is done typically before adding coolant.

Reservoir: The reservoir holds a supply of coolant.

Type of coolant: Kool Mist Formula #77

Needle valve: This valve is used to regulate how much coolant will flow to the knives

Mist valve: The Mist valve is used to control the frequency of the coolant. This frequency can be set by the operator. The controls are located within junction box below the reservoir.

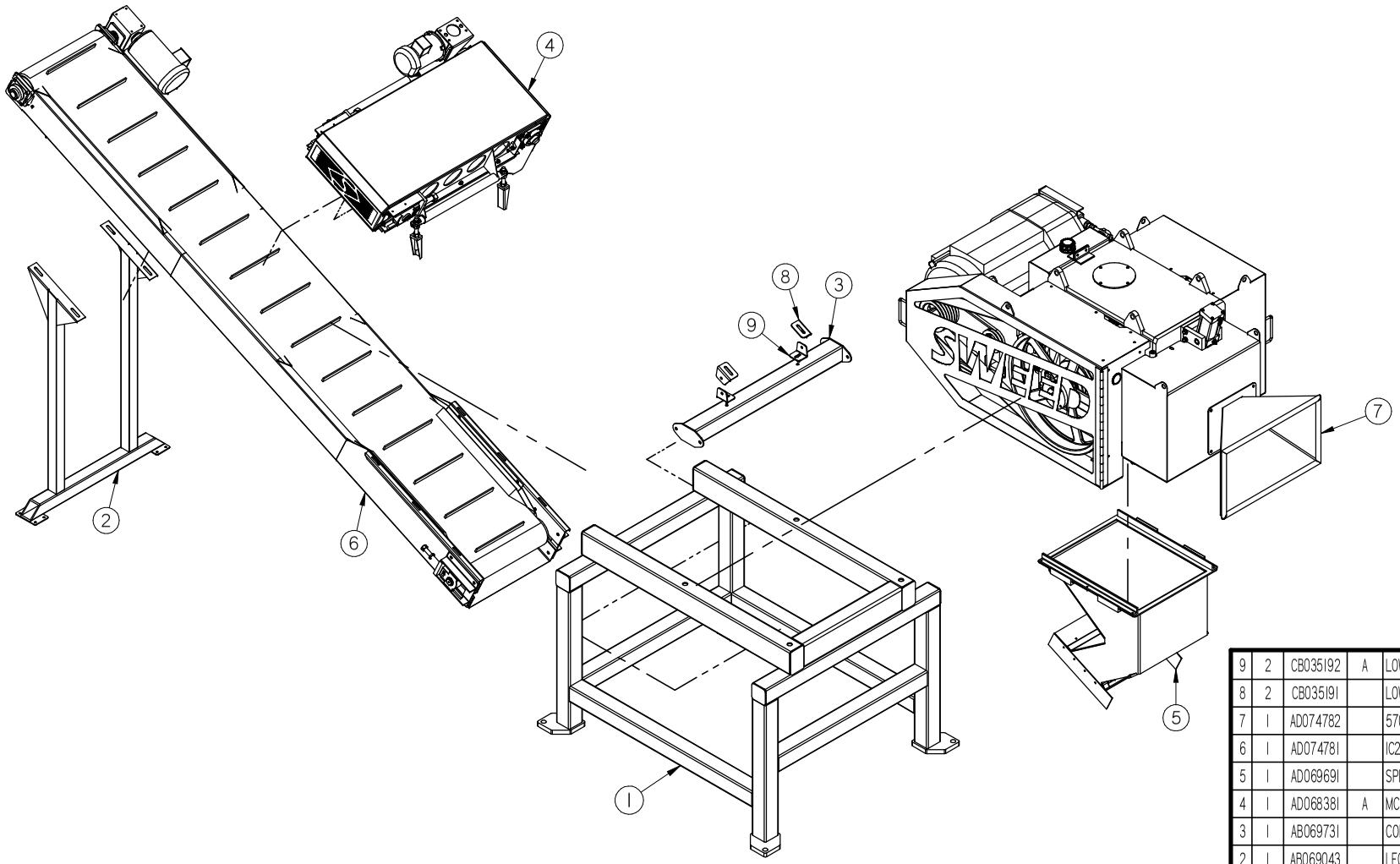
Cylinder valve: This valve is use to control the opening and closing of the feed rolls.

8.0 RECOMMENDED SPARE PARTS LIST

QTY.	PART NO.	DESCRIPTION
1	KX000117	KNIFE KIT (Includes bolts)
2	AB032525	FEEDROLL ASSEMBLY
1	CA000703	LOWER FEEDWORKS MATERIAL GUIDE
1	CB019628	UPPER FEEDWORKS MATERIAL GUIDE
1	BX009366	MAIN DRIVE BELT, 5VX 5-STRAND
1	BX015561	HYDRAULIC DRIVE BELT, 5V

9.0 TROUBLE SHOOTING

PROBLEM	CAUSE	SOLUTION
MATERIAL FEED STOPS	Too large of a gap exist between the feed rolls for the material being fed	Adjust the set screw on the side of the feed works to close the gap further
	Banding is twisted or bent	Straighten out bent portion or remove it.
	Worn feed rolls	Replace feed roll
	Reduced feed roll pressure	Check feedworks cylinder pressure
	Loss in hydraulic system pressure	Repair leak and/or replaced part. Possibly replace hydraulic pump belt
	Jammed feed rolls	Clear material from rolls
MACHINE FAILS TO CUT	Material is too large for machine	Run appropriate size material into the machine
	Knife edges are dull	Rotate or replace knives
MACHINE WILL NOT START OR STOP RUNNING	Emergency Stop Button has been pushed	Pull out Emergency Stop button
	Motor protection tripped	Reset motor
	Broken drive belt	Replace belt
	Failed electrical service	Check circuit power
	Switch failure	Replace switch
ALUMINUM IN THE STEEL BIN	Too much material on conveyor	Reduce infeed speed
	Magnetic cross belt set to low	Raise cross belt
	Steel imbedded into aluminum	Check for adequate cooling flow, water, coolant
	Knife gap too large	Tighten knife gap



#	QTY	SWEED #	REV	DESCRIPTION
9	2	CB035192	A	LOWER PIVOT MOUNT, STAND SIDE
8	2	CB035191		LOWER PIVOT MOUNT, CONVEYOR SIDE
7	1	AD074782		5703AG, QUAD KNIFE, HYD FEEDWORKS
6	1	AD074781		IC2212AA, DUAL MAG, HIGH SPEED, 230-460V 3PH 60HZ
5	1	AD069691		SPILLWAY, REAR EXHAUST INCLINED CONVEYOR
4	1	AD068381	A	MCB 2030 AA, 230-460V 3PH 60HZ
3	1	AB069731		CONVEYOR MOUNTING BAR
2	1	AB069043		LEG STAND
1	1	AB067691	B	STAND, BELTED CONVEYOR, DISCHARGE

Sweed Machinery, Inc.
PO Box 228 • Gold Hill, OR 97525
541-855-1512

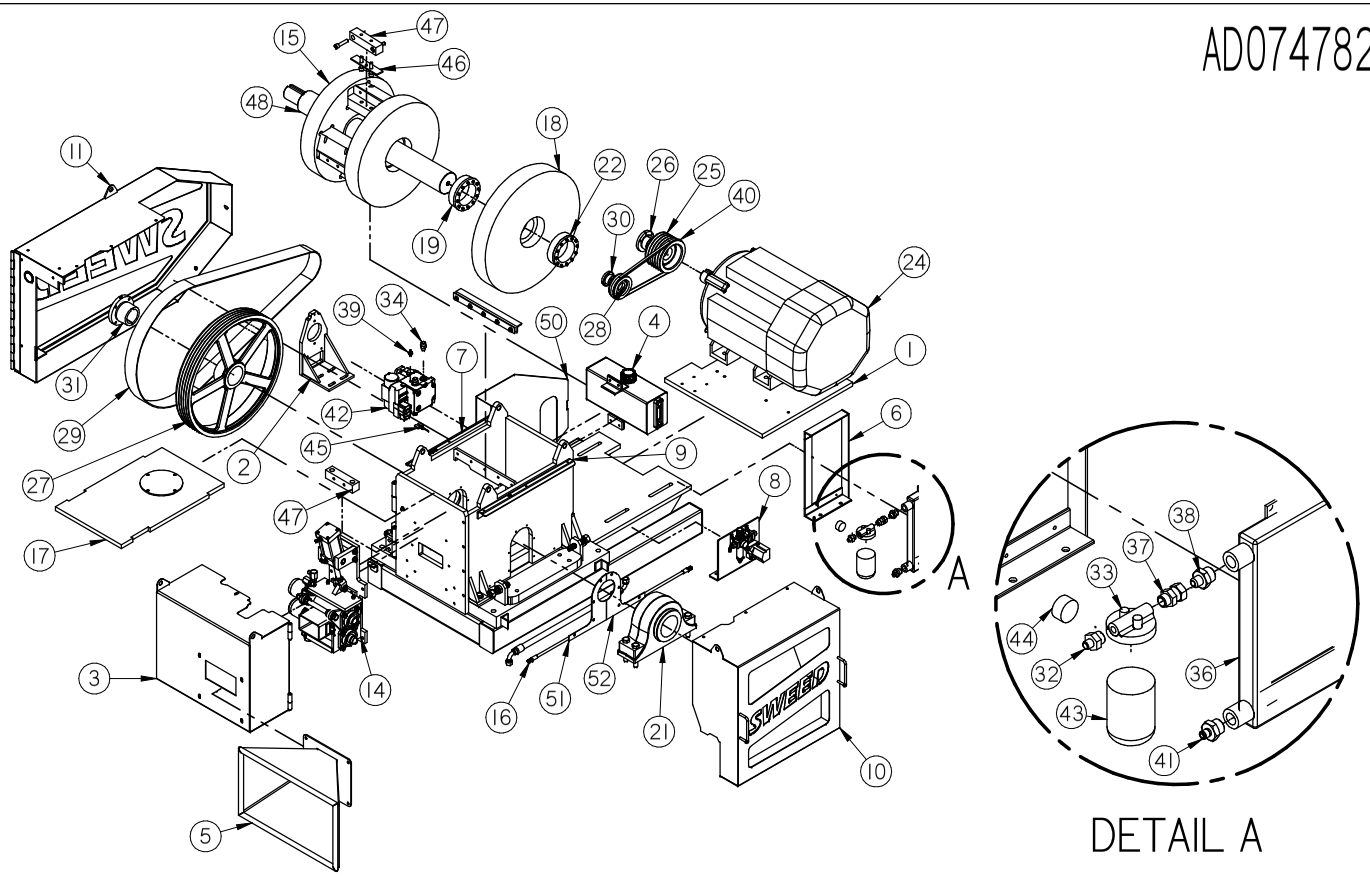
DATE: 6/20/2016
SHEET: 2 OF 10

5703 AG SYSTEM, 460/3/60 QUAD KNIFE

PART DWG: AD074777

NOTES: (UNLESS OTHERWISE SPECIFIED)

AD074782



DETAIL A

54*	1	CX016745		CHAN 5" X 67.0# X 3
53*	1	CB037673		DRIVE GUARD ALIGNMENT BRACKET
52	2	CB037640	A	REAR FLYWHEEL SHAFT COVER
51	2	CB037639	A	FRONT FLYWHEEL SHAFT COVER
50	1	CB011516	C	FORMED MOTOR GUARD
49*	1	CB010257		WEAR PLATE
48	1	CB009114		FLYWHEEL SHAFT
47	5	CB004370	B	KNIFE (V4)
46	3	CB001397		KNIFE SHIM
45	1	BX030121		CUSTOM HARNESS 42 SERIES EDC
#	QTY	SWEED #	REV	DESCRIPTION

44	1	BX029977		COLOR CODED VISUAL INDICATOR, 0-100 PSI
43	1	BX029976		SPIN ON 10 MICRON ELEMENT
42	1	BX029835		PUMP, AXIAL PISTON
41	1	BX023673		FTGH, CON 1/2 37° M - 1 0-R M
40	1	BX015561		BELT, "V" 5V X 49"
39	1	BX012206		FTGH, CON 1/4 37° M - 3/8 0-R M
38	1	BX011957		FTGH, CON 3/4 37° M - 1 0-R M
37	1	BX011956		FTGH, ADP 3/4 37° FM - 3/4 0-R M SWIVEL
36	1	BX011955		OIL COOLER, 25 PSI RELIEF
35*	4	BX011474		FTGH, CON 5/8 37° M - 1/2 0-R M
#	QTY	SWEED #	REV	DESCRIPTION

34	2	BX010326		FTGH, CON 5/8 37° M - 3/4 0-R M
33	1	BX010197		FILTER MOUNT, RETURN 25 PSI BYPASS, SAE 12 HEAD ASSEMBLEY
32	2	BX010196		FTGH, CON 1/2 37° M - 3/4 0-R M
31	1	BX010143		BUSHING, QD F 3 1/4 BORE
30	1	BX009735		BUSHING, QD SDS X 1 BORE
29	1	BX009366		BELT, "V" 5VX 132" O.D. LENGTH 5 STRAND
28	1	BX009362		SHEAVE, 5.2 O.D. 2 GROOVE 5V QD
27	1	BX009356		SHEAVE, 28" O.D. 5 GROOVE 5V QD
26	1	BX009355		BUSHING, QD SF 2 7/8 BORE
25	1	BX009354		SHEAVE, 7 1/2 O.D. 6 GROOVE 5V QD
24	1	BX009353		MOTOR, 60HP 1185RPM 404T 480/3/60/50 TEFC
23*	1	BX009339		VALVE,CROSS-PORT RELIEF SIZE 10 SAE 8 PORTS 600-3000 PSI HYD
22	1	BX009098		LOCKING ASSEMBLY, 4 15/16 4000-IN
21	2	BX009094		BEARING, PILLOW BLOCK 4 15/16
20*	1	BX008646		FTGH, CON 3/4 37° M - 3/4 0-R M
19	2	BN000956		LOCKING ASSEMBLY, 4 15/16
18	1	BB008431		EXTERNAL FLYWHEEL
17	1	AD073391		HOUSING ASSEMBLY
16	1	AD052371		HOSE ASSEMBLIES
15	1	AD043181		FLYWHEEL ASSEMBLY, QUAD
14	1	AD032521	A	FEEDWORKS ASSEMBLY, HYDRAULIC
13*	1	AB074658		MOTOR GUARD UPPER MOUNT
12*	1	AB074657		MOTOR GUARD LOWER MOUNT
11	1	AB074538		DRIVE GUARD, HYD FEEDWORKS
10	1	AB074537		NON-DRIVE SIDE GUARD ASSEMBLY
9	1	AB074536		FORMED NON-DRIVE GUARD MOUNT
8	1	AB073956		PNEUMATIC CONTROL MOUNT ASSEMBLY 120V
7	1	AB073581		FORMED DRIVE GUARD MOUNT
6	1	AB044404		RADIATOR MOUNTING BRACKET
5	1	AB044403		INFEED FUNNEL ASSEMBLY (NO FAIR LEAD)
4	1	AB038991	A	HYDRAULIC RESEVOIR SHELL ASSEMBLY
3	1	AB033927	D	FEEDWORKS GUARD, HYDRAULIC FEEDWORKS
2	1	AB033923	B	PUMP MOUNT ASSEMBLY, SUNSTRAND 42
1	1	AB033922		MOTOR BASE ASSY, 5703AE 404T FRAME
#	QTY	SWEED #	REV	DESCRIPTION

NOTES: (UNLESS OTHERWISE SPECIFIED)

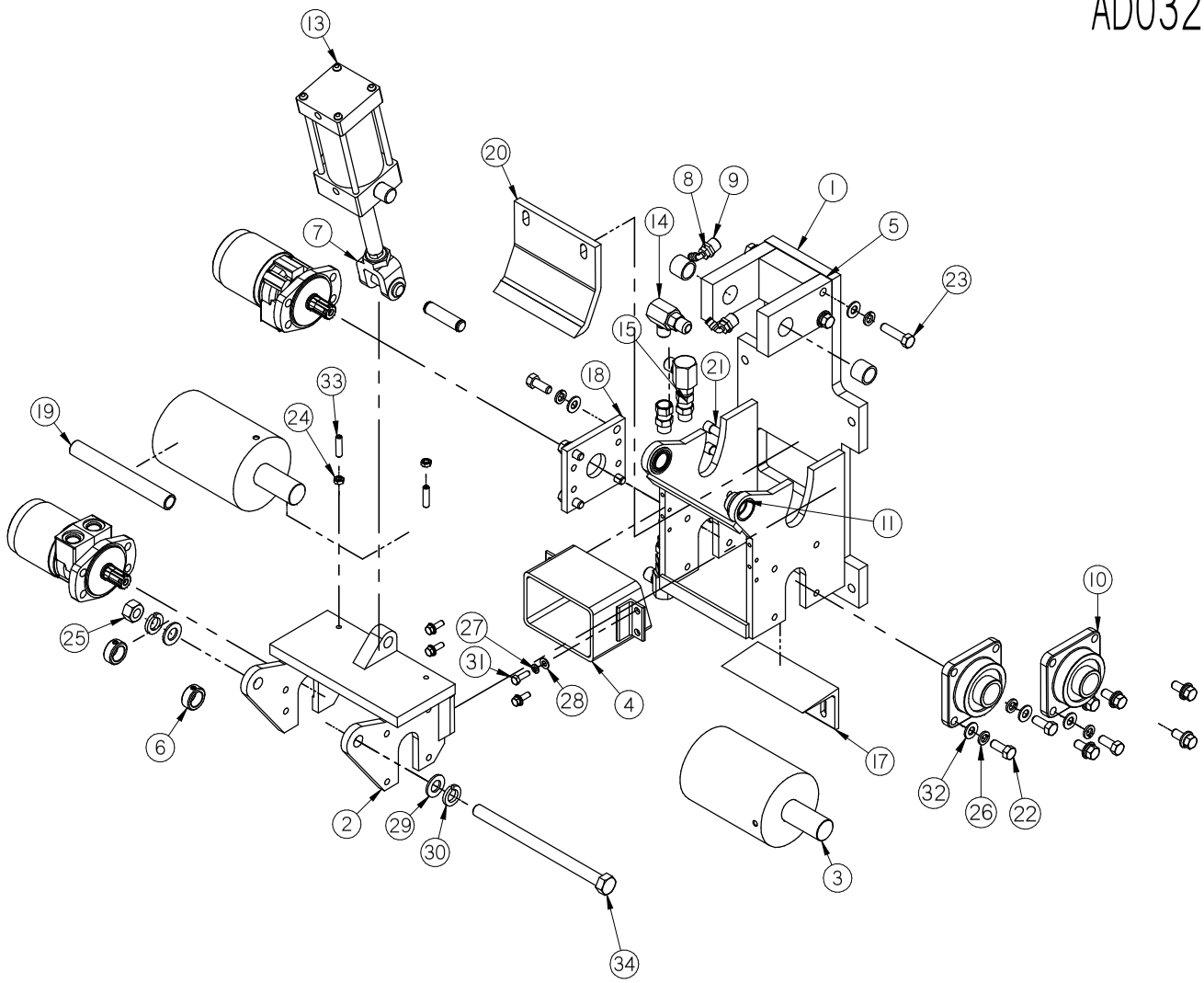
Sweed Machinery, Inc.
PO Box 228 • Gold Hill, OR 97525
541-855-1512

DATE: 6/20/2016
SHEET: 3 OF 10

5703 AG SYSTEM, 460/3/60 QUAD KNIFE

PART DWG: AD074777

AD032521



#	QTY	SWEED #	REV	DESCRIPTION
34	1	FA000684		BOLT, 3/4-10 X 11 HEX HEAD
33	2	FA000437		SCREW, 3/8-16 X 1 1/2 SET SOCKET HEAD
32	16	FA000308		WASHER, 1/2 FLAT SAE PLATED
31	4	FA000231		BOLT, 5/16-18 X 1 HEX HEAD
30	2	FA000189		WASHER, 3/4 LOCK
29	2	FA000164		WASHER, 3/4 FLAT
28	4	FA000113		WASHER, 5/16 FLAT SAE
27	4	FA000111		WASHER, 5/16 LOCK SPLIT
26	16	FA000107		WASHER, 1/2 LOCK
25	1	FA000073		NUT, 3/4-10 HEX
24	2	FA000060		NUT, 3/8-16 HEX JAM
23	4	FA000038		BOLT, 1/2-13 X 2 HEX HEAD
22	12	FA000037		BOLT, 1/2-13 X 1 1/4 HEX HEAD
21	8	CB030991		BOLT 1/2-13 X 1, UPPER FEEDWORKS BRACKET
20	1	CB019628	E	MACHINED ROLL GUARD
19	1	CB008179	B	SPACER, UPPER BRACKET PIVOT PIN
18	1	CB008173	A	ADAPTER PLATE, HYDRALIC MOTOR
17	1	CA000703	D	FEEDWORKS BEVELED ANGLE
16	1	BX014010		FTGH, CON 5/8 37° M - 5/8 O-R M
15	3	BX011953		FTGH, CON 5/8 37° FM - 5/8 O-R M SWIVEL
14	3	BX010247		SWIVEL JOINT, 5/8 MALE 90°
13	1	BX008183		CYLINDER, 3 1/4" BORE X 4" STROKE
12	2	BX008182		MOTOR, HYD 13.9 IN^3/REC 4-BOLT 1" 6B SPLINE SHAFT, 5/8 O-R PORTS
11	2	BX007543		INNER RACE, 1 BORE X 1 1/4 OD X 3/4 WIDE
10	2	BX005175		BEARING, 1 7/16" 4-BOLT FLANGE D-LOCK
9	2	BX004187		REDUCER BUSHING 1/2 - 3/8 NPT SCH 40 BLACK PIPE
8	2	BX003727		FTGAIR, SWIVEL MALE ELBOW 90DG 3/8 NPT - 1/4 TUBE
7	1	BX003097		FEMALE ROD CLEVIS, CYLINDER 3/4" PIN JIC42
6	2	BN000141		COLLAR, SET 1" I.D.
5	2	AB040021		CYLINDER TRUNION MOUNT ASSEMBLY
4	1	AB032526	B	INFEED TUBE ASSEMBLY
3	2	AB032525	C	FEEDROLL ASSEMBLY
2	1	AB032524		UPPER ROLL BRKT, HYDRAULIC FEEDWORKS
1	1	AB032522	B	FEEDWORKS WELDMENT ASSY, HYDRAULIC

NOTES: (UNLESS OTHERWISE SPECIFIED)

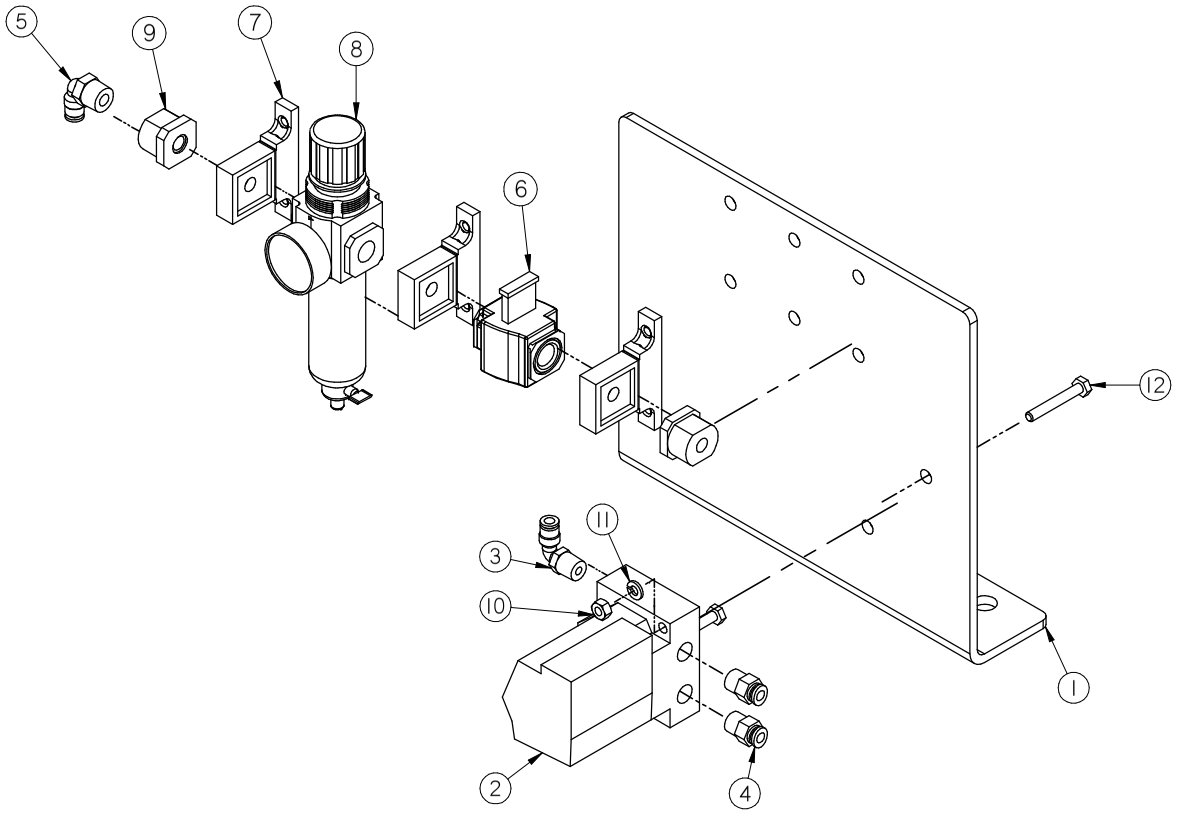
Sweed Machinery, Inc.
PO Box 228 • Gold Hill, OR 97525
541-855-1512

DATE: 6/20/2016
SHEET: 4 OF 10

5703 AG SYSTEM, 460/3/60 QUAD KNIFE

PART DWG: AD074777

AB073956



#	QTY	SWEED #	REV	DESCRIPTION
12	2	FA000161		BOLT, 1/4-20 X 1 3/4 HEX HEAD
11	2	FA000108		WASHER, 1/4 LOCK SPLIT ZINC
10	2	FA000055		NUT, 1/4-20 HEX
9	2	BX037491		ADAPTER 3/8" PIPE THREAD QUICK MOUNT
8	1	BX037478		FILTER REGULATOR AIR 3/8" PTF KNOB 25um 5-150 PSI W/G
7	3	BX018170		QUIKCLAMP AND WALL MOUNTING BRACKET
6	1	BX018169		VALVE LOCK-OUT 3/8
5	1	BX003727		FTGAIR, SWIVEL MALE ELBOW 90DG 3/8 NPT - 1/4 TUBE
4	2	BX003726		FTGAIR, STRAIGHT MALE 1/4 NPT - 1/4 TUBE
3	1	BX003725		FTGAIR, SWIVEL MALE ELBOW 1/4 NPT - 1/4 TUBE
2	1	BX003719		VALVE, AIR 4/2 1/4" NPT SOLENOID PILOT
1	1	AB073682		PNEUMATIC MOUNTING PLATE ASSEMBLY

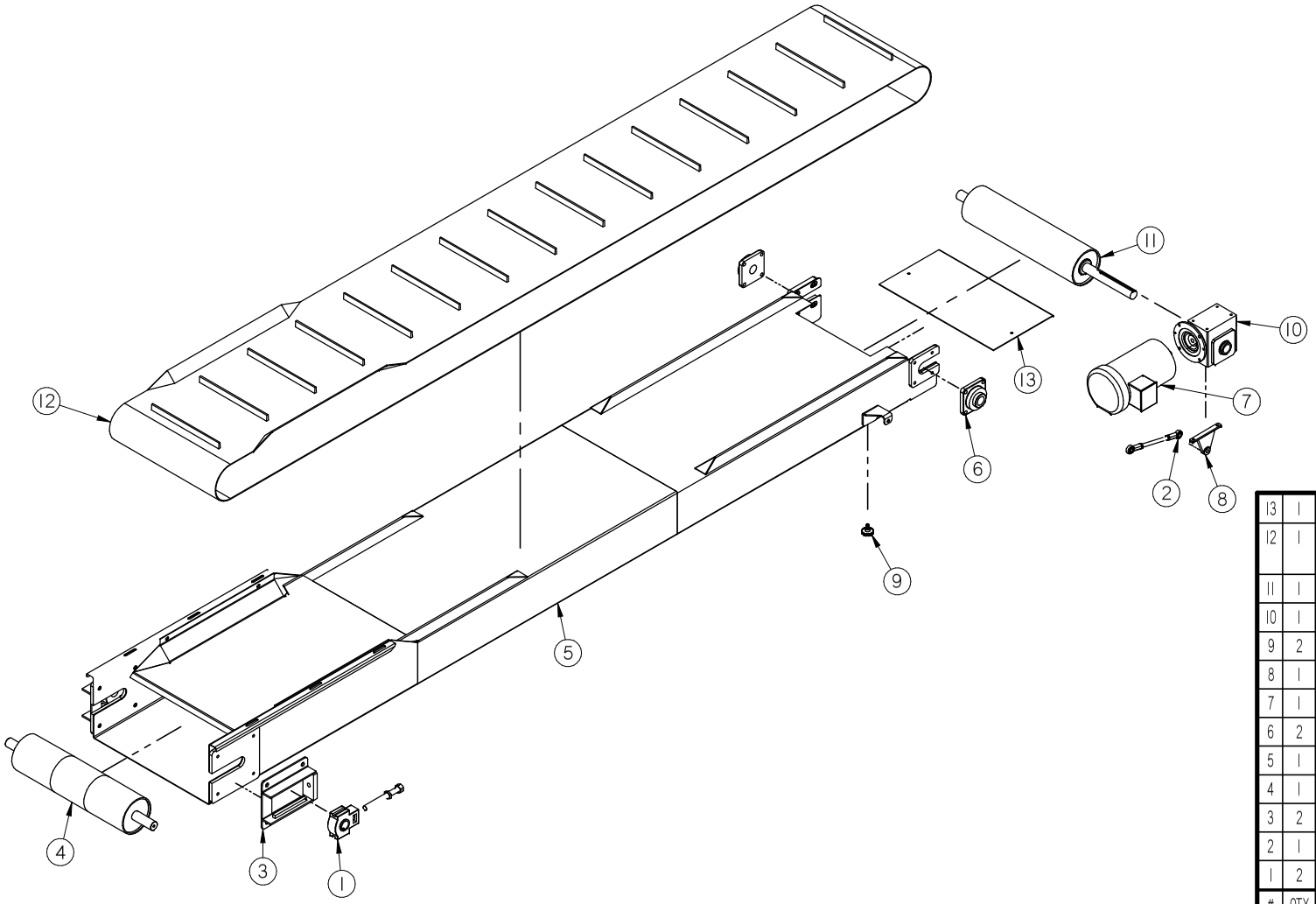
Sweed Machinery, Inc.
PO Box 228 • Gold Hill, OR 97525
541-855-1512

DATE: 6/20/2016
SHEET: 5 OF 10
PART DWG: AD074777

5703 AG SYSTEM, 460/3/60 QUAD KNIFE

NOTES: (UNLESS OTHERWISE SPECIFIED)

AD074781



#	QTY	SWEED #	REV	DESCRIPTION
13	1	CB034235		SS RETURN TRAY
12	1	BX034633		BELT, CONVEYOR 22 WIDE X 305 1/2 LONG, 2PLY 150LB 1/32 X BB, 1 CLEATS ON 10 INCH CENTERS RECESSED 2 1/4" EACH SIDE
11	1	BX034236		MAG PULLEY, Ø6 C 23" WIDE CR W/ 1 7/16 SHFT
10	1	BX033687		REDUCER, 20:1, RT ANGLE, 1 7/16 HOLLOW BORE, 56C
9	2	BX031145		KNOB 5/16"-18 X 3/4" STUD, 1-3/4" DIA
8	1	BX029768		TORQUE ARM BRACKET, REDUCER GR824
7	1	BX005296		MOTOR, 1HP, 1800RPM, 56C, TEFC, 230/460/3PH/60HZ
6	2	BN000493		BEARING, 4-HOLE FLANGE, 1 7/16" BORE, VSC
5	1	AD069012		CONVEYOR WELDMENT
4	1	AB068574		IDLER PULLEY, Ø6 X 23 X 1 7/16 SHAFT
3	2	AB062454		FRAME ASSEMBLY, WIDE SLOT 4" TAKE-UP
2	1	AB058074		TORQUE ROD ASSEMBLY
1	2	AB046462		TAKE-UP BEARING, 1 7/16" BORE X 4" ADJ.

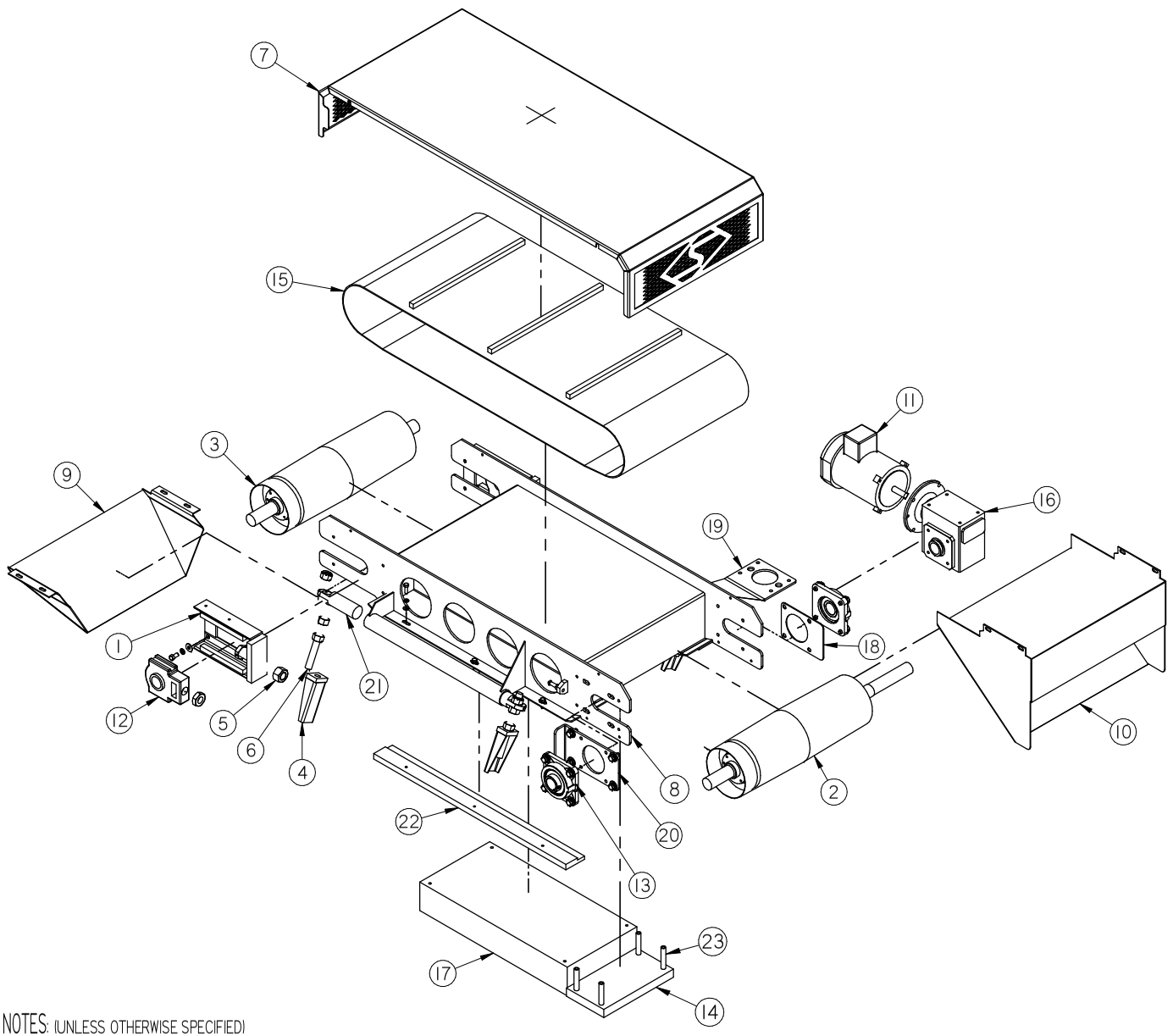
Sweed Machinery, Inc.
PO Box 228 • Gold Hill, OR 97525
541-855-1512

DATE: 6/20/2016
SHEET: 6 OF 10
PART DWG: AD074777

5703 AG SYSTEM, 460/3/60 QUAD KNIFE

NOTES: (UNLESS OTHERWISE SPECIFIED)

AD068381



#	QTY	SWEED #	REV	DESCRIPTION
23	4	CX033614		TUBM 9/16 OD X .323 ID X 2 7/8
22	2	CB034174		UHMW GUIDE STRIPS
21	4	CB033692		MOUNT STUB
20	1	CB033682		BEARING ADJUSTMENT PLATE
19	1	CB033600		GEAR BOX TIE ROD
18	1	CB033598		GAP GUARD
17	1	BX034298		MAGNET, 23 3/4 X 11 1/4 X QTY4 X 3/8-16 X 1/2 DEEP HOLES
16	1	BX034297		REDUCER, 10:1, RT ANGLE, 1 7/16 HOLLOW BORE, 56C
15	1	BX034140		BELT, CONVEYOR 20" WIDE X 98 3/4" LG 2PLY 150LB 1/3, X BB 18" X 5/8" CLEATS ON 6" CENTERS, MECH SS PIN
14	1	BX033686		MAGNET, 11 1/4 X 6 X 1 1/8" THICK
13	2	BX005985		BEARING, 4-HOLE FLANGE, 1 1/2" BORE, VSC
12	2	BX001787		BEARING, WIDE SLOT TAKE-UP, 1 1/2" BORE, SC
11	1	BN001342		MOTOR, 3/4HP 1725RPM 56C 3PH/60/230/460 CFACE
10	1	AD070371		EXHAUST SPILLWAY, STAINLESS
9	1	AD069612		LOWER GUARD ASSY
8	1	AD068382	B	FRAME WELDMENT
7	1	AB071151	A	GUARD ASSY
6	4	AB068511		JACK BOLT WELDMENT
5	2	AB068371		TAKE-UP BOLT ASSY
4	4	AB068011		CONVEYOR MOUNT WELDMENT
3	1	AB067725		PULLEY, HEAVY DUTY IDLER
2	1	AB067724		PULLEY, HEAVY DUTY DRIVE
1	2	AB067723	A	TAKE UP BEARING WELDMENT

NOTES: (UNLESS OTHERWISE SPECIFIED)

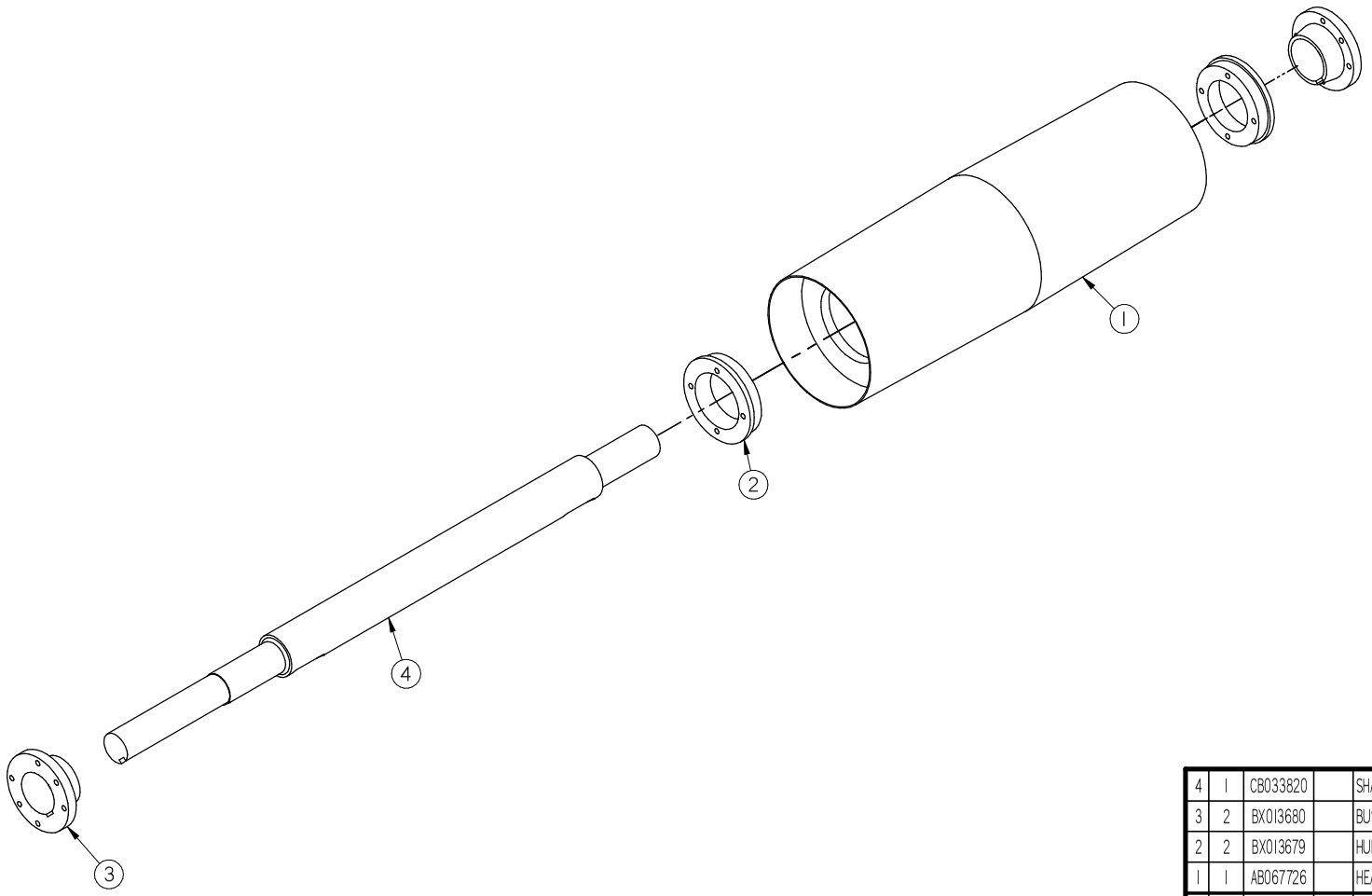
Sweed Machinery, Inc.
PO Box 228 • Gold Hill, OR 97525
541-855-1512

DATE: 6/20/2016
SHEET: 7 OF 10

5703 AG SYSTEM, 460/3/60 QUAD KNIFE

PART DWG: AD074777

AB067724



#	QTY	SWEED #	REV	DESCRIPTION
4	1	CB033820		SHAFT, DRIVE HEAVY DUTY PULLEY
3	2	BX013680		BUSHING, XT 2" BORE XTB20
2	2	BX013679		HUB, XT TYPE I
1	1	AB067726		HEAVY DUTY PULLEY HOUSING

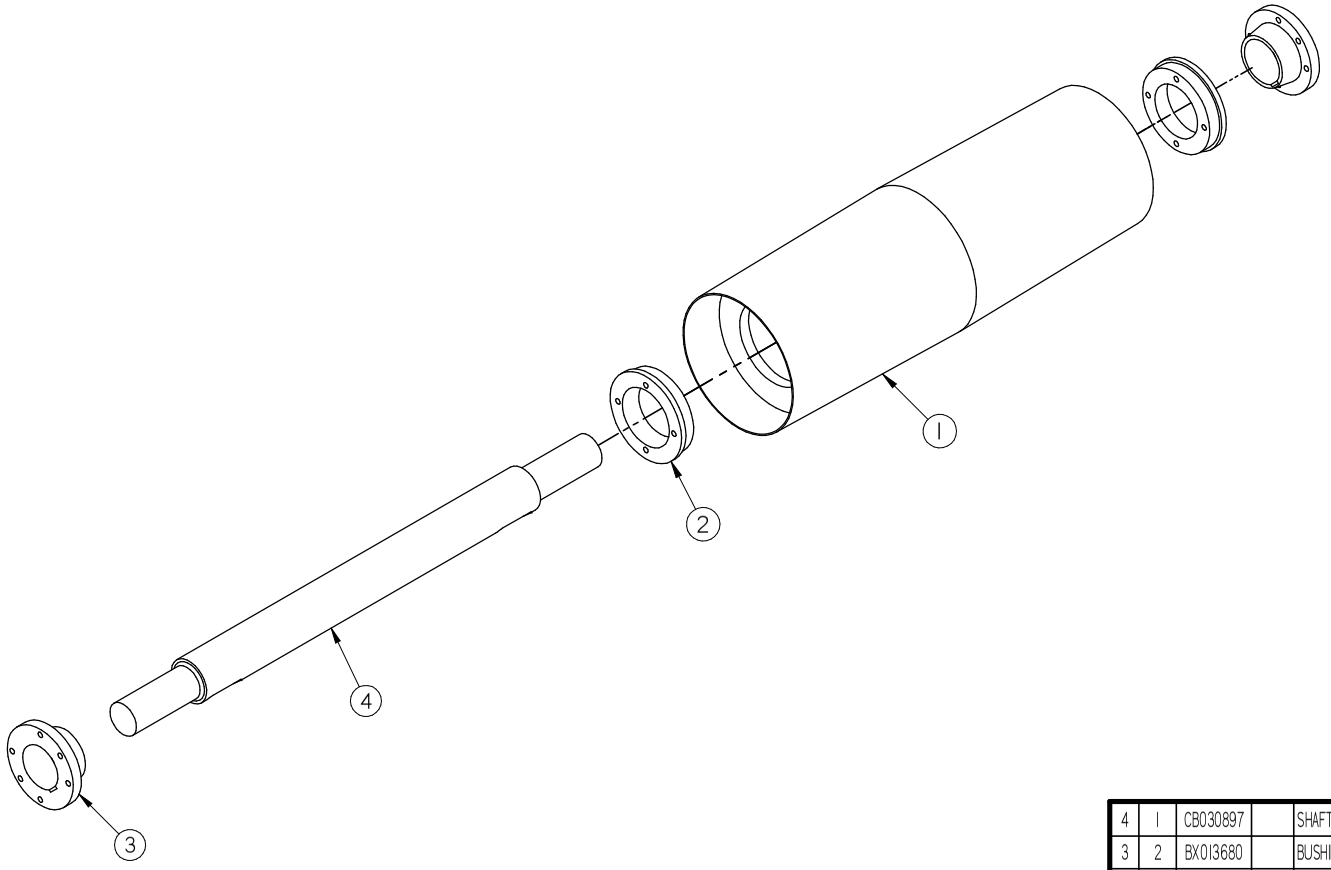
Sweed Machinery, Inc.
PO Box 228 • Gold Hill, OR 97525
541-855-1512

DATE: 6/20/2016
SHEET: 8 OF 10
PART DWG: AD074777

5703 AG SYSTEM, 460/3/60 QUAD KNIFE

NOTES: (UNLESS OTHERWISE SPECIFIED)

AB067725



#	QTY	SWEED #	REV	DESCRIPTION
4	1	CB030897		SHAFT, IDLER HEAVY DUTY PULLEY
3	2	BX013680		BUSHING, XT 2" BORE XTB20
2	2	BX013679		HUB, XT TYPE I
1	1	AB067726		HEAVY DUTY PULLEY HOUSING

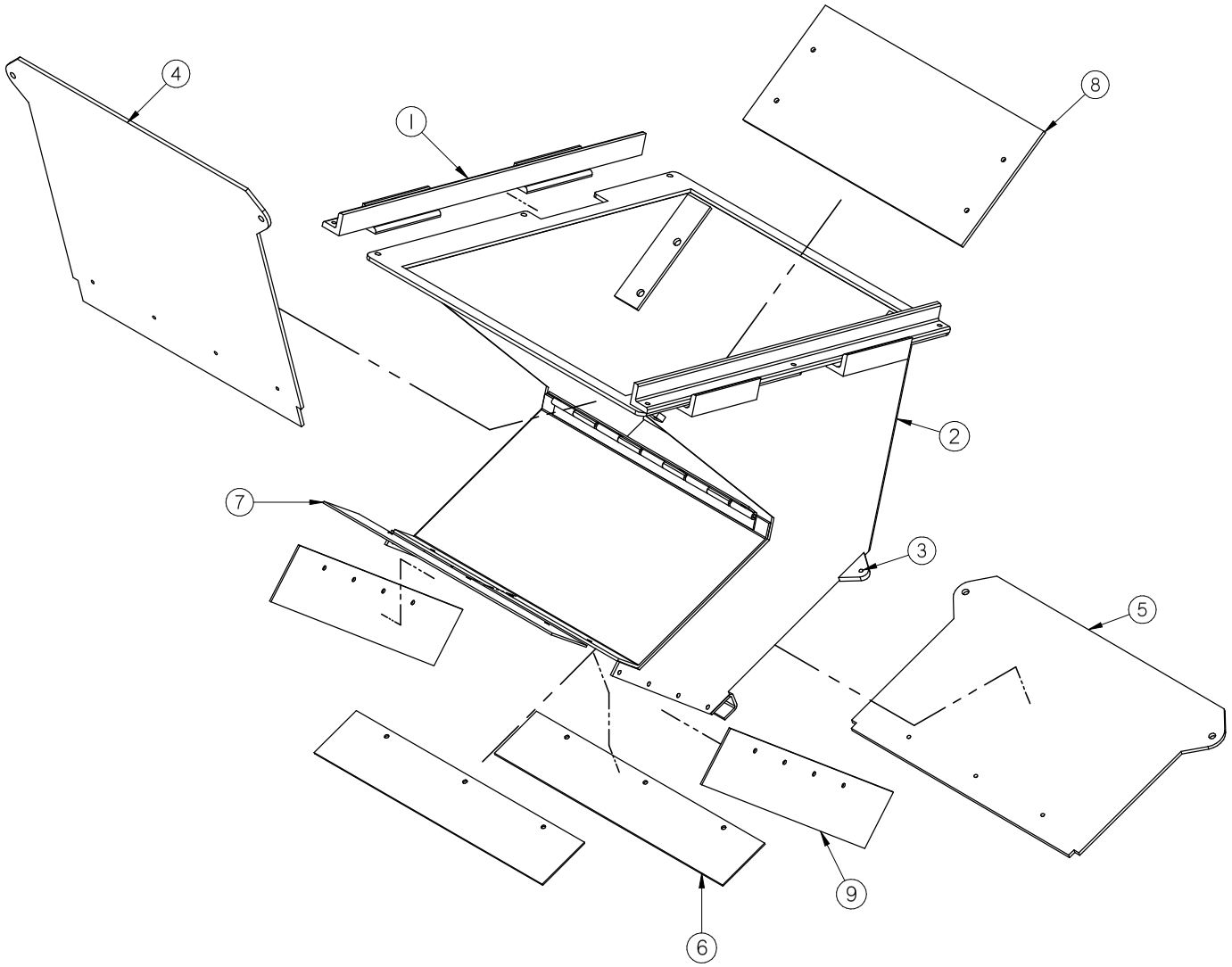
Sweed Machinery, Inc.
PO Box 228 • Gold Hill, OR 97525
541-855-1512

DATE: 6/20/2016
SHEET: 9 OF 10
PART DWG: AD074777

5703 AG SYSTEM, 460/3/60 QUAD KNIFE

NOTES: (UNLESS OTHERWISE SPECIFIED)

AD069691



#	QTY	SWEED #	REV	DESCRIPTION
9	2	CB035317		SIDE FLAP
8	1	CB035244		WEAR PLATE
7	1	CB035161		FRONT FLAP
6	2	CB035160		REAR FLAP
5	1	CB035159		LOWER WEAR PLATE
4	1	CB035158		UPPER WEAR PLATE
3	4	CB033805		BOLT TAB
2	1	AD069692		SPILLWAY WELDMENT, REAR EXHAUST
1	2	AB067945		MOUNTING BRKT

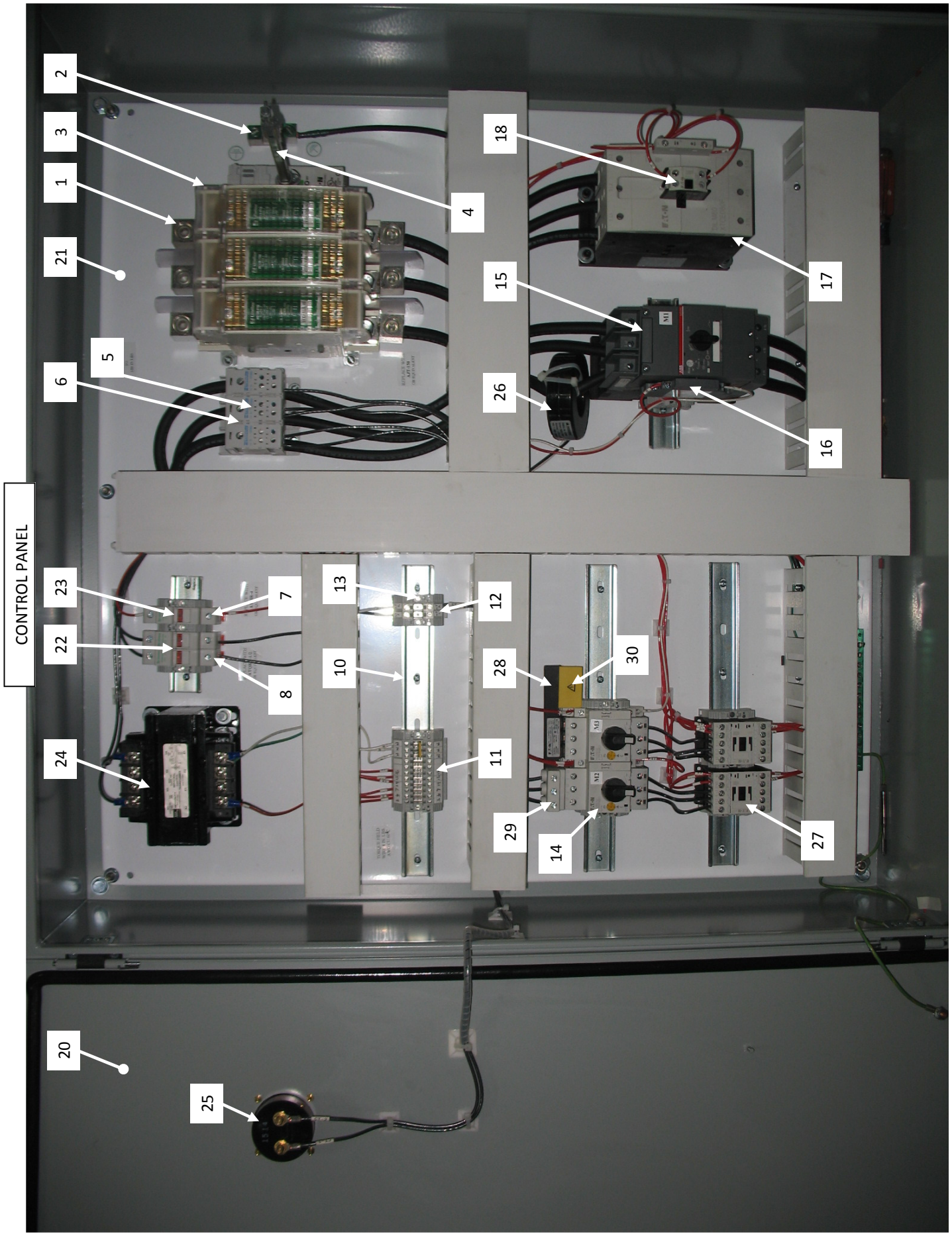
Sweed Machinery, Inc.
PO Box 228 • Gold Hill, OR 97525
541-855-1512

DATE: 6/20/2016
SHEET: 1 OF 1 0

5703 AG SYSTEM, 460/3/60 QUAD KNIFE

PART DWG: AD074777

NOTES: (UNLESS OTHERWISE SPECIFIED)


CONTROL PANEL
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5703 AD XHD SYSTEM (AD073021)			
Item No.	**Part No.**	**Qty.**	**Description**
1	BX031438	2	LUG KIT, 3 POLE 100-200 AMP
2	BX005485	2	CONNECTOR, ONE HOLE-ONE CONDUCTOR 2/0-14AWG LUG
3	BX031115	1	DISCONNECT, SWITCH FUSED 200 AMP
4	BX030357	1	DISCONNECT, SWITCH HANDLE PISTOL
5	BX018491	3	T BLOCK PD ADDER 1 IN 4 OUT 175 AMP
6	BX018492	4	PDB MULTIBLOCK PIN
7	BX031116	2	FUSE, HOLDER 1 POLE CC ULTRA SAFE
8	BX031117	1	FUSE, HOLDER 2 POLE CC ULTRA SAFE
9	BX005249	3	FUSE 125 AMP 600V JTD
10	BX007282	48”	T BLOCK MT RAIL DIN
11	BX023614	50	TERMINAL BLOCK 600V
12	BX027042	16	TERMINAL BLOCK END BARRIER
13	BX007281	20	TERMINAL BLOCK, END STOP IEC
14	BX028614	2	MMP XTPR 1.0-1.6 FLA
15	BX033688	1	MMP, 75 HP 70-90 FLA UL CLASS 10 (CHOPPER)
16	BX033807	1	AUX CONTACT, SIDE MOUNT 1 NO 1 NC
17	BX030354	1	CONTACTOR, 3 POLE 120V COIL
18	BX030355	1	CONTACTOR, AUX CONT 2-NO
20	BX020560	1	ENCLOSURE 36 X 36 X 10 NEMA 4 CSD
21	BX004335	1	ENCLOSURE PANEL 36 X 36
22	BX022654	2	FUSE AMP 600V MIDGET CC TD
23	BX027634	1	FUSE, AMP 600V CLASS CC
24	BX017458	1	TRANSFORMER, 300VA 480 X 240 / 120
25	BX004255	1	METER AC A 0-100 AMP ANALOG 2 1/2” PANEL MT
26	BX004256	1	TRANS DONUT 100:5
27	BX023734	2	CONT XT 9 A 3 POLE 120V COIL 1 NO
28	BX023640	1	COMMONING LINK 3 PHASE/3
29	BX023641	1	MMP XT INCOMING TERMINAL
30	BX023642	3	MMP XT SHROUD UNUSED TERMINAL

13.0 WARRANTY

WARRANTY

SWEED MACHINERY, INC WARRANTIES AGAINST DEFECTS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF SHIPMENT ON ALL NEW MACHINES AND 90 DAYS ON REFURBISHED MACHINES. PARTS CLAIMED TO BE DEFECTIVE MUST BE RETURNED, FREIGHT PREPAID, TO OUR PLANT IN GOLD HILL, OREGON. ANY PARTS DETERMINED DEFECTIVE DUE TO FAULTY WORKMANSHIP OR MATERIALS WILL BE REPLACED OR REPAIRED (AT OUR OPTION) FREE OF CHARGE, F.O.B. OUR PLANT. EXCEPT AS EXPRESSLY PROVIDED HEREIN, THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF MERCHANT ABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY IS VOID IF THE UNIT HAS BEEN TAMPERED WITH, MODIFIED, ALTERED, OR OPERATED WITH PARTS OTHER THAN SUPPLIED OR RECOMMENDED BY SWEED MACHINERY, INC. IN NO EVENT SHALL SWEED MACHINERY, INC., BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, HOWEVER ARISING.

SWEED MACHINERY, INC DOES NOT WARRANTY TO MEET THE REQUIREMENTS OF ANY SAFETY CODES OF ANY STATE, MUNICIPALITY, OR OTHER JURISDICTION, AND THE PURCHASER ASSUMES ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM THE USE THEREOF WHETHER USED SINGULARLY OR IN COMBINATION WITH OTHER MACHINERY OR APPARATUS.

ANY CHANGE IN MATERIALS, DESIGN, OR PERFORMANCE INTENDED TO IMPROVE ANY PRODUCT OF SWEED MACHINERY, INC., SHALL NOT OBLIGATE SWEED MACHINERY, INC. TO MODIFY ANY PREVIOUSLY MANUFACTURED EQUIPMENT.

SWEED MACHINERY, INC.

NOTE: ALL RETURNED MATERIAL MUST BE ACCOMPANIED BY A SWEED RETURN MATERIAL (RMA) AUTHORIZATION NUMBER. PLEASE CALL OUR SERVICE DEPARTMENT AT 1-800-888-1352 IF YOU NEED ASSISTANCE.